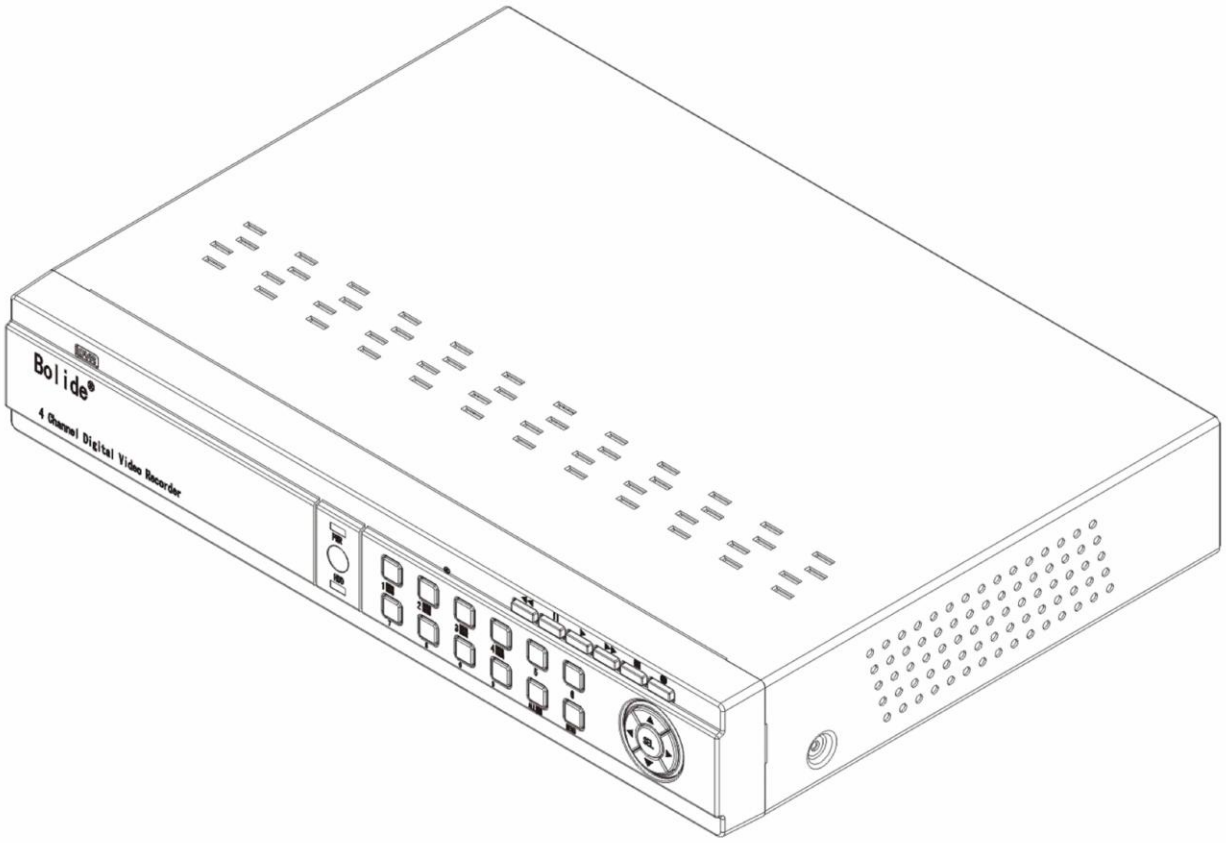
BOLIDE®
TECHNOLOGY GROUP

SVR9004HD
SVR9008HD
SVR9016HD
SVR9016CHD

H.264 Digital Video Recorder



4CH Picture showed

Operating Instructions

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Safety Instruction

1. Read Instruction

All the safety and operating instruction should be read before the equipment is operated.

2. Power sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer.

3. Objects and Liquid

Never push objects of any kind through openings of this equipment and / or spill liquid of any kind on the equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

4. Water and / or Moisture

Do not use this equipment near water or in contact with water.

5. Heat sources

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifier) that produce heat.

6. Dusty field

Never use this equipment near dusty or intense magnetic field.

7. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

8. Lightning

Unplug this equipment during lightning storm or when unused for long periods of time.

9. Accessories

Do not place this equipment on an unstable cart, stand or table. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

10.Moving

Disconnect the power before moving the equipment. And the equipment should be moved with care.

11. Attachment

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock and other personal injury.

12. Correct Batteries

Risk of explosion occurs if battery is replaced by an incorrect type. Therefore you must use the same type of battery as the one being used in the product.

13. Ventilation.

Do not block any ventilation openings, installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

14. Overloading

Do not overload wall outlets and extension cords to avoid the risk of fire or electric shock.

15. Reliable Earthlings (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit.

Chapter 1: Features

Function	Brief and Description
Real time monitoring	Double video output; with monitor, VGA virtual output port or HDMI Output; Support net-viewer and MP live surveillance and also support zoom in/out, auto sequence and PIP display.
Record	H.264 video compression format; record quality/resolution/frame rate adjustable, multiple record modes (Always, Scheduled, Manual, Alarm, Motion detection and remote record)
Record storage	Support SATA large capacity HDD and save real-time record image to HDD.
Playback	Support DVR single CH and multiple CH Search/Playback of recorded files.
Backup	Support DVR backup via USB flash drive, removable drive, Recorder and network.
Alarm Setting	Supports HDD & video input alarm management and external alarm signal inputs.
Network operation	Supports remote surveillance by authority users to increase system security.
Mouse Operation	Supports Mouse operation for faster menu navigation.
PTZ Control	Supports PTZ camera operations through RS-485.

List 1-1

Features：

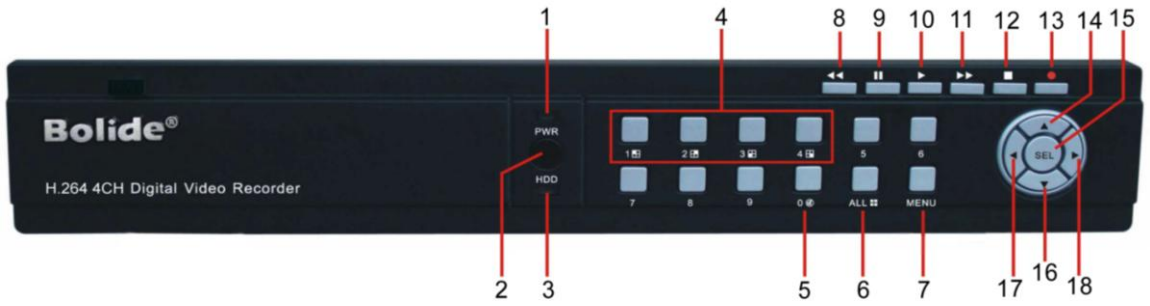
- H. 264 video compression format; supports 960H and D1 resolution;
- G.711 audio compression format
- Windows Graphical interface; embedded real-time Linux2.6 operation system;
- Friendly Menu reminder;
- Multiple operation modes (Preview, record, playback, backup, network surveillance and mobile phone monitoring);
- Supports Double Encode bit network transmission;
- Supports remote live surveillance via 3G mobile networks;
- Supports Zoom in/out and sequence function;
- The video package time is adjustable;
- Multiple alarm record modes;
- Rear USB2.0 ports for back-up, upgrade and mouse operation;
- With IR remote control operation;
- Multiple language OSD;
- Support auto-maintain.

Chapter 2: Overview

2.1 Front Panel

Reminder: DVR is the abbreviation of Digital Video Recorder Equipment.

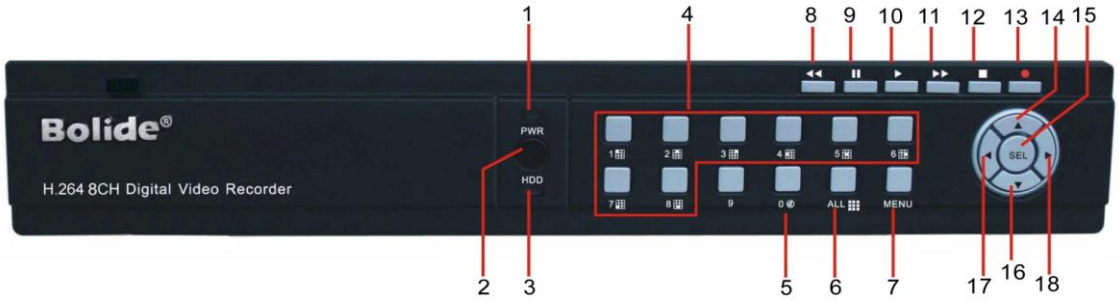
2.1.1 SVR90004HD DVR Front Panel



Item	Key title/Indicator	Marks	Functions
1	Power indicator	**PWR**	If the “Green” indicator is on, the system is getting powered
2	IR Receiver		Receives signal from Remote Control
3	HDD indicator	**HDD**	When the “Red” indicator flashes, it means the hard drive is being read or written to.
4	Channel Select: CH1 CH2 CH3 CH4		Select Single Channel Display
5			Disable or Enable audio preview
6	ALL		Display all cameras in Live display or playback mode
7	MENU		Enter into main menu or exit menu
8	REW		Rewind
9	PAUSE		Pause / play frame by frame, dwell time (sequential channel switch) during single camera display
10	PLAY		Enter into pop-up Menu/Play
11	FWD		Play Forward
12	STOP		Stop Playback; stop manual recording
13	REC		Start Manual recording
14	Up		Move Up
15	SEL		Enter into pop up menu; Select key / Edit
16	Down		Move Down
17	Left		Left Arrow
18	Right		Right Arrow

List 2-1

2.1.2 SVR90008HD/SVR9016CHD DVR Front Panel



Item	Key title/Indicator	Marks	Functions
1	Power indicator	**PWR**	If the “Green” indicator is on, the system is getting powered
2	IR Receiver		Receives signal from Remote Control
3	HDD indicator	**HDD**	When the “Red” indicator flashes, it means the hard drive is being read or written to.
4	Channel Select:CH1- CH8		Select Single Channel Display
5			Disable or Enable audio preview
6	ALL		Display all cameras in Live display or playback mode
7	MENU		Enter into main menu or exit menu
8	REW		Rewind
9	PAUSE		Pause / play frame by frame, dwell time (sequential channel switch)during single camera display
10	PLAY		Enter into pop-up Menu/Play
11	FWD		Play Forward
12	STOP		Stop Playback; stop manual recording
13	REC		Start Manual recording
14	Up		Move Up
15	SEL		Enter into pop up menu; Select key / Edit
16	Down		Move Down
17	Left		Left Arrow
18	Right		Right Arrow

List 2-2

2.1.3 SVR9016HD DVR Front Panel

Item	Key title /Indicator	Marks	Function
1		●	Receives IR signal from Remote Control
2	Power indicator	PWR	If the “Green” indicator is on the system is getting powered normally.
3	HDD indicator	HDD	When the “Red” indicator flashes it means the hard drive is being read or written to.
4	Single Channel and numeric key	Numeric key 0-9 and CH key CH1~9	1. Number 1~9 stand for numeric 1~9 and CH 1~9. 2. CH11-CH16 select method: press firstly numeric key 1 and then other numeric key. For example CH16 select firstly press 1, and then press 6. Holding press key 0 for three seconds may convert current output device
5	USB Port		Connect to USB2.0 port
6	Manual record/Stop	● / ■	Manual record/Stop
7	Play /Pause	▶II	Press the button to start or Stop playing
8	DISPLAY		Live Quad display, 9-split display and 16-split display
9	PTZ	PTZ	Enter into PTZ control, select [Enter] / [Edit] operation
10	UP	▲	Move up
11	DOWN	▼	Move down
12	LEFT	◀ / ◀◀	Move left / RWD
13	RIGHT	▶ / ▶▶	Move right / FWD
14	Menu	MENU / ESC	Enter into main menu / Exit

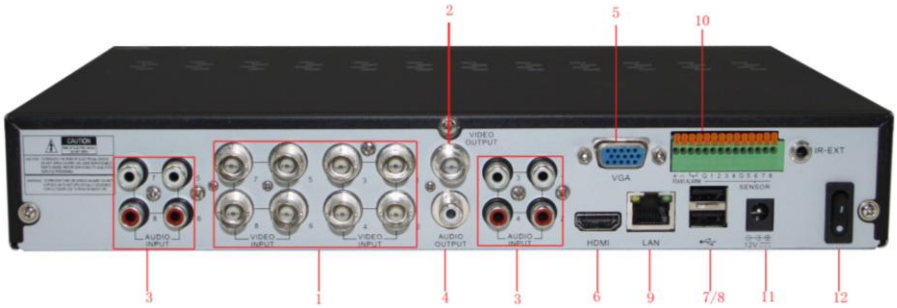
List 2-3

2.2 Rear Panel

2.2.1 SVR9004HD DVR Back Panel

Item	Physical port	Connection method
1	Video input	Connect CH1-4 (Virtual) video input device（BNC）
2	Video output	Connect monitor output(BNC interface)
3	Audio Input	4CH audio input (RCA interface）
4	Audio Output	1CH output (RCA interface）
5	VGA Port	Connect to VGA monitor, such as PC monitor
6	HDMI	HDMI Output
7	USB Port	Connect USB mouse\USB device (Flash Drive, Hard Drive and Recorder etc.)
8		
9	Ethernet Port	Connect LAN, Ethernet (RJ45 interface)
10	RS-485/Alarm	RS485/Sensor/Alarm interface (see pin outs above)
11	Power Port	Connect power supply - DC12V 2A
12	Power Switch	Turn Power on and off

2.2.2 SVR9008HD DVR Back Panel

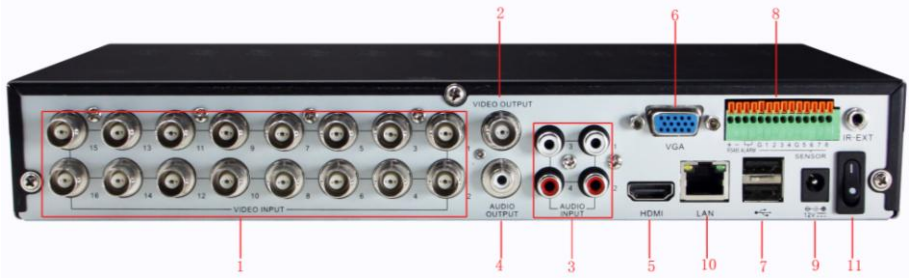


Item	Physical port	Connection method
1	Video input	Connect CH1-8 (Virtual) video input device (BNC)
2	Video output	Connect monitor output (BNC interface)
3	Audio Input	8CH audio input (RCA interface）
4	Audio Output	1H output (RCA interface）
5	VGA Port	Connect to VGA monitor, such as PC monitor
6	HDMI	HDMI Output
7	USB Port	Connect USB mouse\USB device (Flash Drive, Hard Drive and Recorder etc)
8		
9	Ethernet Port	Connect LAN, Ethernet (RJ45 interface)
10	RS-485/Alarm	RS485/Sensor/Alarm interface (see pin outs above)
11	Power Port	Connect power supply - DC12V 2A
12	Power Switch	Turn Power on and off

2.2.3 SVR9016HD DVR Back Panel

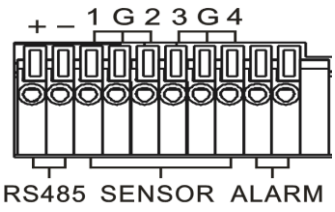
Item	Physical port	Connection method
1	Video input	Connect CH1-16 (Virtual) video input（BNC interface）
2	Video output	Connect monitor output(BNC interface)
3	Audio input	Connect CH16 audio signal input (BNC interface)
4	Audio output	2CH output (BNC interface）
5	HDMI	HDMI Output
6	VGA Port	Connect to VGA monitor, such as PC monitor
7	USB Port	Connect USB mouse
8	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs above)
9	Power Port	Connect power supply - DC12V 5A
10	Ethernet: Port	Connect LAN, Ethernet (RJ45 interface)
11	Power Switch	Turn Power on and off

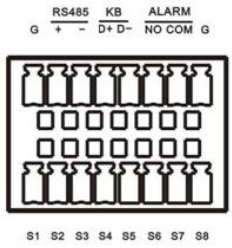
2.2.4 SVRD9016CHD DVR Back Panel

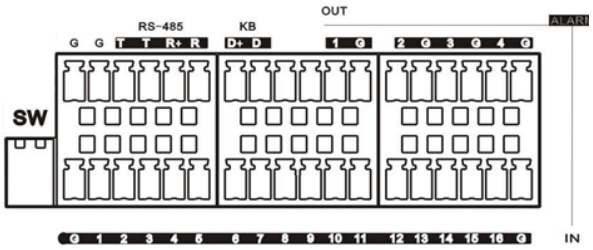


Item	Physical port	Connection method
1	Video input	Connect CH1-16 (Virtual) video input（BNC interface）
2	Video output	Connect monitor output(BNC interface)
3	Audio input	Connect CH1-4 audio signal input (RCA interface)
4	Audio output	1CH output (RCA interface）
5	HDMI	HDMI Output
6	VGA Port	Connect to VGA monitor, such as PC monitor
7	USB Port	Connect USB mouse
8	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs above)
9	Power Port	Connect power supply - DC12V 2A
10	Ethernet: Port	Connect LAN, Ethernet (RJ45 interface)
11	Power Switch	Turn Power on and off

RS485/Sensor/Alarm port functions:





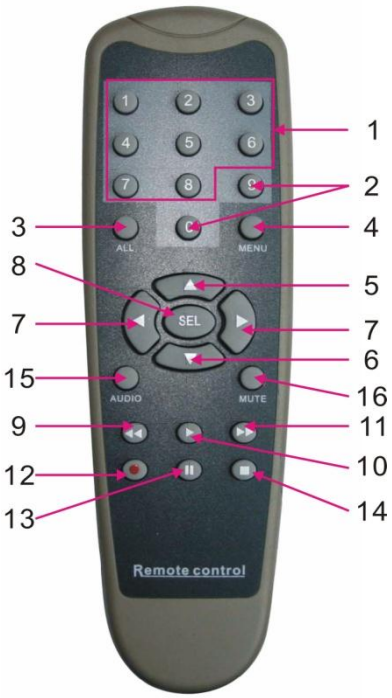


Alarm input: Connect [-] port of your sensor to G (GND) pin, and [+] port to channel input according to the alarm device you purchased.

Alarm output: Connect to the two ports marked with “out”

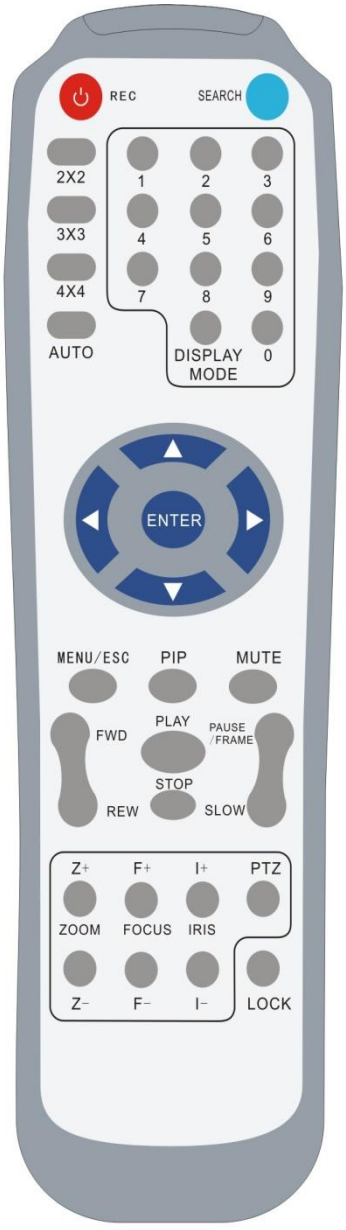
PTZ Port： Connect your camera to RS-485A and RS485B accordingly.

2.3 SVR9004HD/ SVR9008HD/ SVRD9016CHD Remote Controller



Item	Key title	Key function
1	**1-8**	Channel select 1-8; Numeric key
2	**9、0**	Numeric key; Clicking numeric “0” allow you switch to GUI (Graphical user Interface) function
3	**ALL**	Multiple display mode
4	**Menu**	Enter into Main menu/Exit
5	▲	Up arrow key, Volume adjust
6	▼	Down arrow key, Volume adjust
7	◀/▶	Left/Down key, Decrease/increase parameter value of control bar
8	**SEL**	Select key/Edit key; Confirm the selected operation.
9	◀◀	Rewind key
10	▶	Enter into record search menu; Play key
11	▶▶	Forward key
12	●	Record key
13	❙❙	Pause/Sequence key
14	■	Stop manual record; stop playing
15	**Audio**	N/A
16	**Mute**	Mute on/off

2.4 SVR9016HD Remote Controller



Key Title	Key Function
REC	Press the button to enter into manual record.
SEARCH	Press the button to enter into record search menu
2×2	Enter into Quad display
3×3	Enter into 9-split display
4×4	Enter into 16-split display
AUTO	Enter into dwell time display
0~9	Channel select; numeric key
DISPLAY MODE	Multiple CH display (Quad, 9-split, 16-split and full screen display）
▲	Up direction key
▼	Down direction key
◄ / ►	Left/right direction key; also decrease/increase parameter value of control bar.
ENTER	select [Enter] / [Edit] operation
Menu/ESC	Enter into/exit Main menu
PIP	PIP display mode
MUTE	Mute key
FWD	Forward（x2、x4、x8 、x16）
REW	Rewind（ x2、x4、x8 、x16）
PLAY	Enter into record search, play record event
STOP	Stop play / manual play
PAUSE/ FRAME	Pause / play frame by frame
SLOW	（1/2、1/4、1/8）Slow play
Z+	Zoom out video area
Z-	Zoom in video area
F+	Extend focus
F-	Extend focus
I+	Increase PTZ brightness
I-	Decrease PTZ brightness
PTZ	Allow you set preset bit and control PTZ.
LOCK	Lock system

Mouse Operation

Except using buttons of front panel or remote controller, you also can use mouse to perform system operation.

TYPE	Function
Click left key of Mouse	In menu lock mode, Enter into pop-up menu and clicking any sub menu to pop up Log-in window; on menu unlock mode, enter into pop-up menu, and then clicking left key to enter into any sub menu directly.
	After entering into main menu, clicking left key could enter into any sub menu; On [Detailed file] menu mode, clicking left key could playback one recording file.
	Change the status of check box and motion detection area.
	Clicking combo box to access pull-down menu; Click left key to stop dwell time display when dwell time display is activated.
	By clicking left key you can adjust Color control bar and volume control bar.
	By clicking left key you can select values in edit boxes or pull-down menu and supports special symbol, numeric and character input, use instead of [Enter-] or [Backspace]
Click right key of Mouse	In live display mode, clicking right key will display pop-up menu (shown as Picture 5-1).
	In Main menu or sub menu mode, clicking right key will exit current menu.
Double-click Left key of Mouse	In live display or playback mode, double-clicking left key will maximize the screen.
Moving Mouse	Select menu item
Sliding Mouse	On motion mode, sliding mouse will select motion area; On [Color set] menu mode, sliding mouse will adjust color control bar and volume control bar.

Chapter 3 DVR INSTALLATION

3.1 HDD Installation

Caution： Please do not Install or take out hard drive when DVR is running!

(1) Cut power firstly, and then remove screws and open DVR upper cover carefully;

(2) Insert Power Cord and data cable into Pin of hard drive securely;

(3) Fix the HDD to DVR body

(4) Put the upper cover back carefully, re-attach screws.

Note: If user requires higher performance HDD, strongly recommend you use special hard driver for security and protection

3.2 Camera and Monitor Connection

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector (Refer to section2.2-Rear Panel); or VGA and HDMI monitor.

If the camera is a PTZ speed dome, you could connect RS485 A & B to the according port of DVR respectively (refer to system figuration on Chapter 8).

3.3 Power Supply connection

Please only use the power adapter supplied with the DVR.

After power on please make sure the video I/O connection well, audio device with RCA cable.

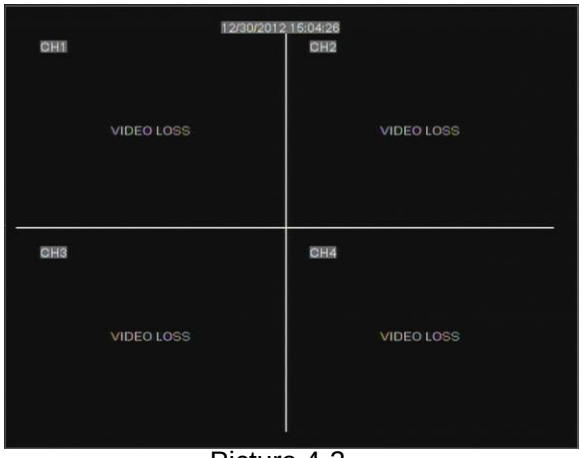
Chapter 4: DVR Boot up

4.1 System Initialization

Picture 4-1

After connecting the Power cable of DVR to wall outlet and pressing the Power button on the front panel, you will enter into the system initializing screen shown as Picture 4-1

4.2 Live Interface



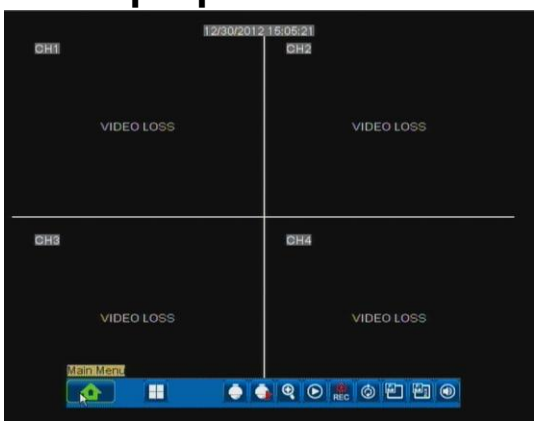
Picture 4-2

After finishing initialization the system will enter into <Live> screen. Picture 4-2 is the 16-split display defaulted by system, which is showing no video input status. Once there are video inputs, the screen will display live images from the cameras. In Live mode, if you use the mouse to double-click the live image of any channel, the image will be maximized to full screen, by double-clicking again, image will come back to 16-split display mode; clicking the right button of the mouse will enter into Pop-up Menu; clicking the left button of the mouse allows you select menu items; and clicking any area outside the menu allows you exit the Pop-up menu.

Note: When internal HDD is not connected or an error occurs, the character “H” will appear on the first channel of the live screen and accompany buzzer alarm. If you want to close the buzzer alarm, please enter into [Main menu→Advanced→Events] to set HDD loss, HDD space not enough and alarm output to “off”

Chapter 5: DVR Menu

5.1 Pop-up Menu

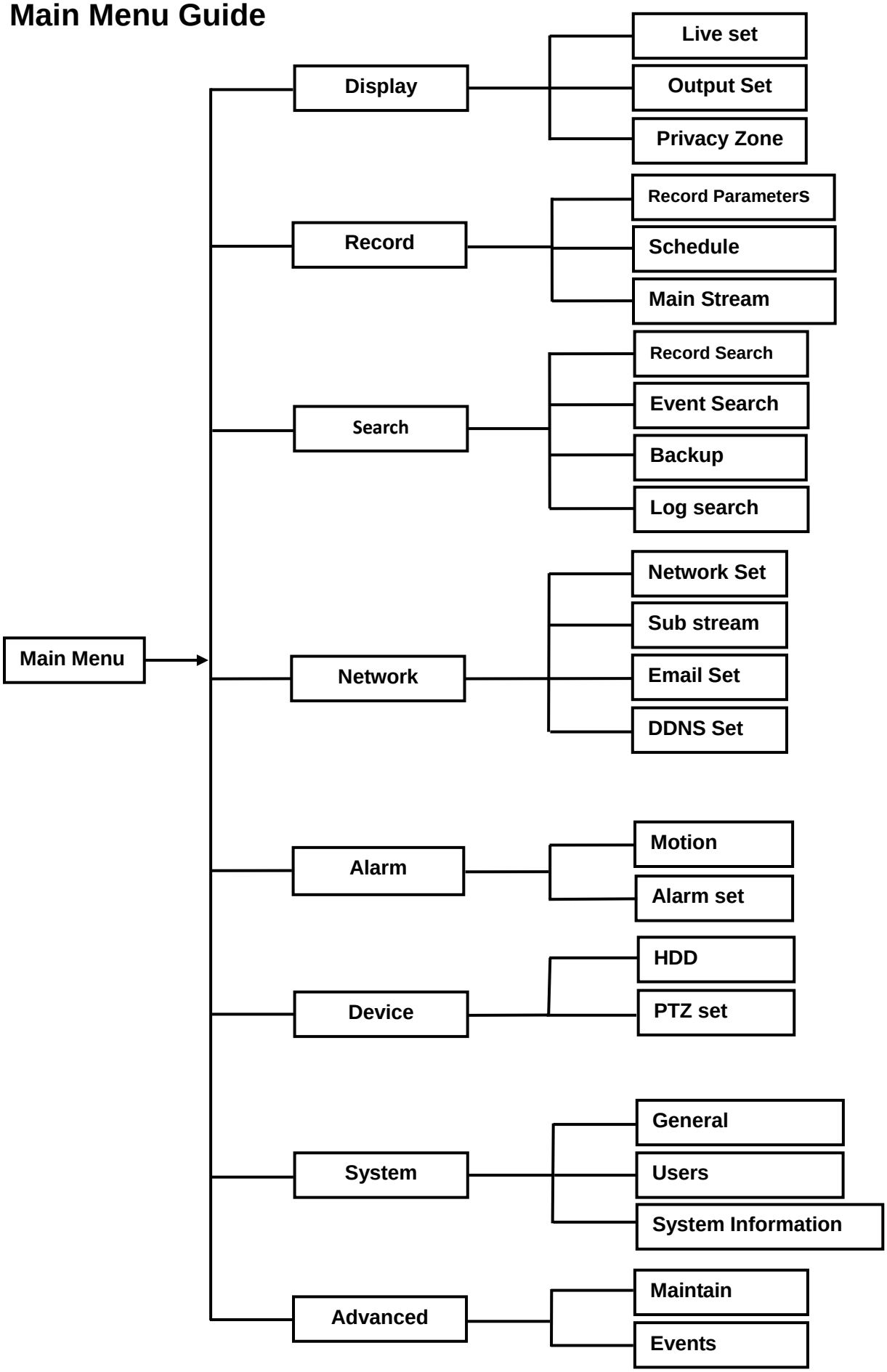


Picture 5-1

After finishing system initialization, click right key of mouse on main interface mode to enter into Pop-up Menu. Now you could perform parameter setting and operate on Main Menu, Multi-Pics, PTZ, PIP, Rec. Search, Mute, Manual record, Start Rolling and Start Cruise etc..

Clicking [0] key on the remote controller or holding press [REW] key on the 4ch/8ch front panel and [0] key on 16ch front panel could switch system to other output device.

5.2 Main Menu Guide



5.3 Main Menu

Picture 5-2

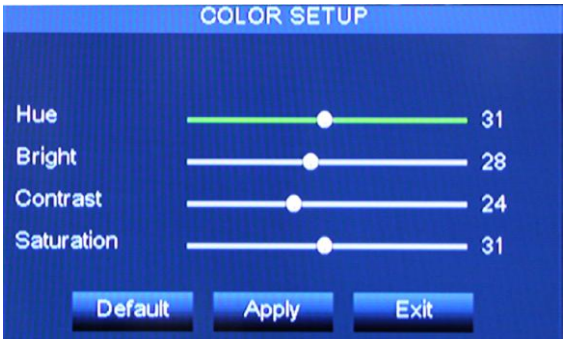
On <Live> mode, click [Menu] button on the front panel or Remote controller to enter into Main menu interface shown as Picture 5-2. And also you can click [ ] icon to enter the main menu screen. In Main Menu mode, you can control device management settings, such as Display, Record, Network, Search, Device, System and Advanced setting etc.

5.3.1 Display

5.3.1.1 Live mode

Go to <Main menu→Display→Live> option and enter into the <Display> setting interface shown as Picture 5-3.

Picture 5-3



Picture 5-4

- **Channel:** allow you setup the channel you desired.
- **Name:** allow you setup the channel name, and system support up to eight characters
- **Position:** allow you setup the display position of each channel.
- **Color:** Click [Setup] option to enter into the [Color setup] interface shown as Picture 5-4.
- **Covert:** allow you enable [Live] surveillance screen
- **Show time:** allow you enable system time appear in the <Live> screen.
- **Record time:** When set to “Enable”, you are allowed to record system time into the record history.
- **Copy:** allow you copy all data of one channel to any other one

Above picture 5-4 is the Color Menu where you can adjust image brightness, saturation, contrast and hue parameters of each channel.

Explanation：

1、The modifications will be available after clicking [APPLY] button on the bottom of the sub-menu windows and being prompted to save and then clicking [ok] button.

2、If you want to cancel the modification, click [Exit] button to exit the menu.

3、When clicking [DEFAULT] button, all system default values will be reset to default value.

4、System default value indicates the value pre-set at the factory.

5.3.1.2 Output mode

Go to [Main menu→Display→Output] to enter into the output set interface shown as Picture 5-5.

Picture 5-5

Picture 5-6

- **Video output:** Support CVBS output Live and Spot mode simultaneously, and Live is main output, and Spot is auxiliary output (only for SVR9016HD)
- **View Setup(CH Sequence):** the option is defaulted to "Off" and sequence time is 5 second. User can activate the option as per request.
- **SEQ time:** allow you set sequence time, and minimum time can be set to 1 second.

VGA/HDMI Resolution: allow you select VGA or HDMI output, including 800x600, 1024x768, 1280x1024, 1440x900 and 1920 x 1080.

- **Transparency:** allow you adjust menu's transparency, and its range is 1~128.
- **Margin:** allow you adjust the whole screen's margin. Details operations please refer to the Picture 5-7.

Volume: allow you adjust the DVR volume shown as Picture 5-8.

Picture 5-7

Picture 5-8

5.3.1.3 Privacy Zone

The function Allow you setup privacy zone parameters according to Picture 5-9. Each channel could set up to four privacy zones, and please follow below steps to set:

1. Select the area no (Area 1 ~ Area 4);
2. Click [Setup] to adjust position of mask area;
3. After finishing position adjust, click right key of mouse to return back [Privacy zone] interface;
4. Click [Apply] to save the above setting.

Picture 5-9

Picture 5-10

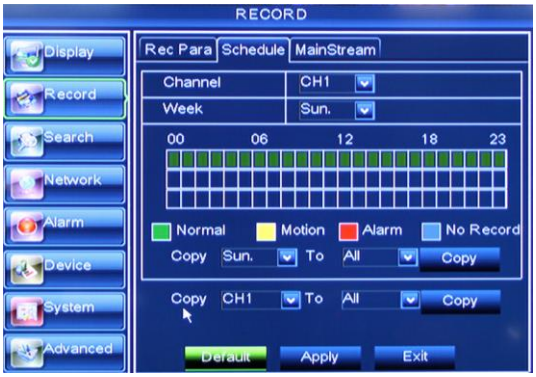
5.3.2 Record set

5.3.2.1 Record parameters

Go to [Main menu→Record→Record Para] to enter into the interface shown as Picture 5-11.

- **Channel:** allow you setup the channel you desired.
- **Record:** allows you set up record status (Enable/Disable) of each channel
- **Pack Duration:** indicates maximum continuous record time (15, 30, 45 and 60 min).
- **Pre-record:** Motion detection and I/O triggered record support Pre-record function.

Picture 5-11



Picture 5-12

5.3.2.2 Schedule

Click [Main Menu→Record→Schedule] to enter into the interface shown as Picture 5-12.

[Channel] option allows you select one channel you desired.

To setup weekly schedules, tick-select the box of the record status you want (Alarm, General, or No Record) and then click on each box in the schedule time line that you want this method to apply to. You can use the [Copy – To] pull-down menus and Copy button to copy settings from one day to another day or all days.

After you complete the schedule you activate it by clicking the [Apply] button.

You can also click on the Default button to use the system defaults.

Explanation: Under the <record> menu and <search> menu, original color stands for no record, “Red” stands for alarm record, “yellow” stands for Motion record and “Green” stands for normal record.

5.3.2.3 Main Stream

Go to [Main menu→Record→Main Stream] to enter into the interface shown as Picture 5-13.

Picture 5-13

- **Resolution:** support WD1/WHD1/WCIF or D1/HD1/CIF.
- **Frame rate:** PAL: 1-25 f/s ; NTSC: 1-30 f/s.
- **Bit rate:** user could select the relative value by pull-down menu.
- **Audio:** When tick-selecting the option, system will record video stream with audio simultaneously

5.3.3 Search

5.3.3.1 Record Search

Click [Main Menu→Search→Record Search] to enter into the interface shown as Picture 5-14.

Picture 5-14

- **Channel:** allows you select the channel(s) you desire to search.
- **Date Search:** In the Video Search screen, user can search for all the records in a specific date. To execute a video search, highlight and select the date numeric field，and then click a detailed time quantum of the specific date, system will start the playback from the first record of the time quantum.
- **Time Search:** In the <Search screen>, user can search for a specific date and time for a recording and view it in Playback mode. This is useful for hunting a specific recording of an incident if you know the date and time it occurred.
- **Event Search:** click [File List] button to enter into the [Event Search] screen shown as Picture 5-19, the video records for the time quantum will appear in the screen.
- **Playback Mode:** You can use the Playback Control bar to operate the Fast Forward (X2, X4, X8 and X16), Slow play (1/2, 1/4, 1/8 and 1/16 speed), Play, Pause/Frame, Rewind(X2, X4, X8 and X16). When ending playback, DVR will return back to previous menu shown as Picture 5-15.
- **Play control Bar:** the play control bar will display current playing processing shown as Picture 5-18. When user click any time at the control bar and this point have not any record file, system will auto return back to previous menu.

5.3.3.2 Channel Select

Click [Main Menu→Search→Record search] to enter into the interface shown as Picture 5-15

Then tick-select the channel you want to playback; and click [Play] button to enter into the playback mode shown as Picture 5-16

Picture 5-15

Picture 5-16

5.3.3.3 Event Search

Click [Main Menu→Search→Event Search] to enter into the interface shown as Picture 5-17.

You could highlight and double-click the desired record for playback. And you also can filter the records you want to view based on date, time, and channel and record mode search.

(First Page): go to the first page on the list. When you view other pages, clicking [First] button brings you back to Page one.

(Previous page): go to the previous ones of current page. Clicking [Pre] button will take you back the previous ones of current page (except the first page).

(Next page): go to the next ones of current page. Clicking the [Next] button will take you to the next ones of current page

Picture 5-17

(Last page): go to the last page. Clicking the [last] button will make you enter into last page quickly.

ALL (Select All): Allows you to select all the events on the current page.

Inverse (Select Invert): Allows you to select other events on the current page except those you have currently selected.

5.3.3.4 Time Axis setup, file clip and zoom in/out

1) The DVR supports the processing control bar function when playing back record files shown as Picture5-18A (Up to 4 CH is available).

2) Click [ ] icon beside the processing bar to pop up the interface shown as Picture 5-18A-1.

Picture 5-18A

Picture 5-18A-1

- **Time Axis: defaulted to 24hours, and allow user select 2hours, 1hour, 30minutes or user-defined.**

  Detailed operation is as follows:

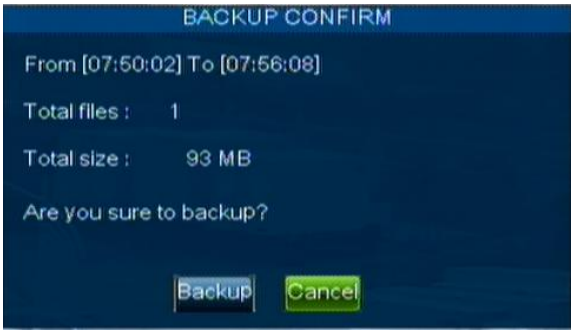
  （**1**） Fixed time axis: If you select [2H] option, that means the processing control bar cover two-hours video content.

  （**2**） User-defined: select [ ]option and move the cursor to processing bar to select start time and/or end time (that is to say, click any points of the processing bar as start time and/or end time), Now, the whole time axis equals the time quantum you just selected (shown as Picture 5-18B-1).

Picture 5-18A-2

Picture 5-18B-1

- Record Clip and backup function and Zoom in/out function



Picture 5-18B-2

Picture 5-18C

- Clip and backup: When one channel is playing-back, the [ ] icon will appear in the [Play control] bar shown as Picture 5-18B-1. Click the icon to start video clip function, click it again to end the function and pop up the dialog shown as Picture 5-18B-2. Now, allow you select if you will save the clipped video file.
- Zoom Function: When one channel is playing-back, the [ ] icon will appear in the [Play control] bar. Click the icon to zoom in one area of the playback screen shown as Picture 5-18C

5.3.3.5 File Backup

You can back-up the record files based on event or time.

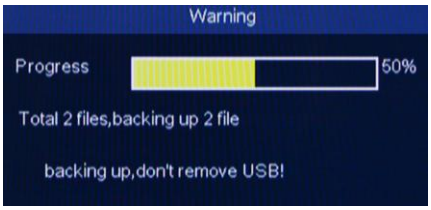
5.3.3.5.1 back-up file based on event

In the [Event Search] mode, if you wish to backup records, please tick-select the BAK check-boxes which correspond to the records and click [Backup] button to enter into the below windows illustrated in Picture 5-19.

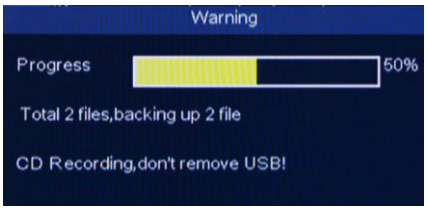
Select USB as backup device and click [Apply] button, and then enter into the window shown as Picture 5-20.

Select DVD as backup device and click [Apply] button, and then enter into the window shown as Picture 5-21.

Picture 5-19



Picture 5-20

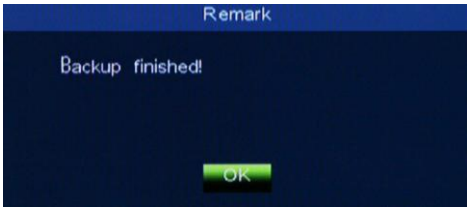


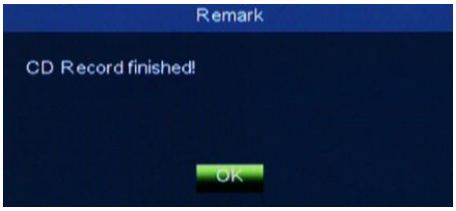
Picture 5-21

After backup finished, please click [OK] button shown as Picture 5-21.

Note:

- File will be saved as *.264 format.
- You could playback the record files via Video player. When installing Video Player, system will auto install the player.
- Please make sure the back-up device connect well before backup.





Picture 5-21

5.3.3.5.2 back-up file based on time

Also allow you back-up record files based on time. Please follow below steps to back up these files (Details operations please refer to section 5.3.3.3):

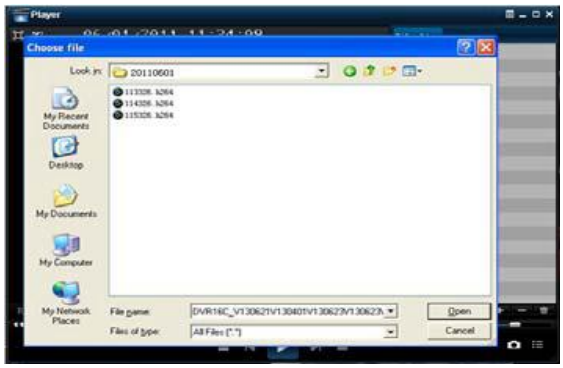
1. input start time and end time on the time edit box;
2. Click [Search] button;
3. Tick-select all the files you desire to backup;
4. Click the [Backup] on the bottom.

5.3.3.5.3 Video Player backup

1. Copy one backup file to your PC.
2. Open Playback player and click “+” icon or

button to find/select the backup file, and then click [open] button.
3. Highlight the file you have selected and click [Play] button.

Picture 5-22



Picture 5-23

: Play button: click the icon to playback the backup record;

: Pause button: click the icon to pause the backup record;

: Stop button: click the icon to stop the backup record;

: Next: Click the icon to play next record;

: Prev.: Click the icon to play previous record

: Slow button: click the icon to play the backup record at 1/2, 1/4, 1/8 and 1/16 speed.

: FF button: click the icon to fast forward the backup record at x2, x4, x8 and/or x16 speed.

: Open: click the icon to open one record file.

: click the icon to enter into full screen mode.

: Click the icon to never place one target to top.

: Click the icon to place one target to top.

: Click the icon to place the playing record to top.

: Snapshot button: click the icon to capture the live image and save the captured one to directory:\\video client\capture.

: Volume Adjust: click the icon to adjust the volume.

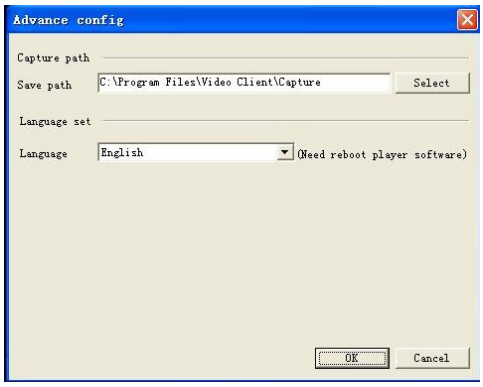
: Add fold or file to player.

: Delete one file in the list

: Delete all the files in the list

: Unfold or fold the list files

: Advance Configuration: click the icon to set capture path and language shown as Picture 5-24



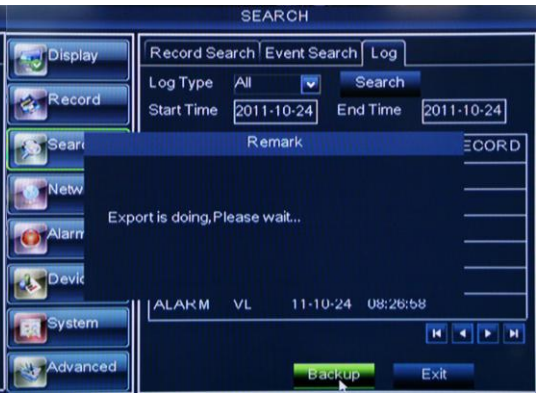
Picture 5-24

5.3.3.6 Log Search

Go to [Main menu→Search→Log] option to enter into the Log search interface shown as Picture 5-25.

Herein allow you preview the log information you have searched. And click [Backup] to export all the log information which is listed. For other button functions please refer to previous section 5.3.3.3-Event Search

Picture 5-25

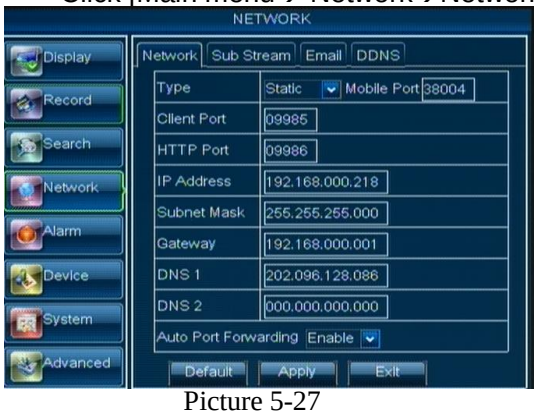


Picture 5-26

5.3.4 Network

5.3.4.1 Network set

Click [Main menu→ Network→Network] to enter into the below interface shown as Picture 5-27.

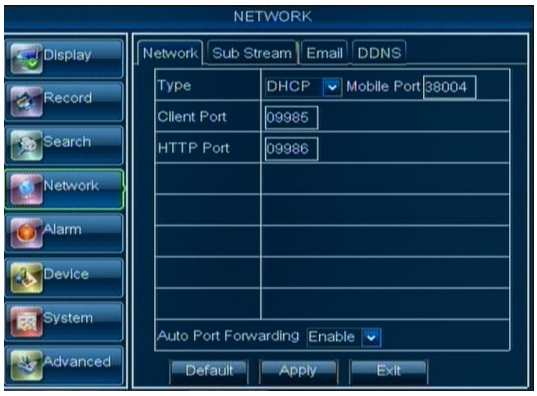


Picture 5-27

After selecting network mode - such as DHCP, PPPOE or static allocation- and setting up web ports，you can visit DVR remotely through a network or internet.

Auto Port Forwarding function: If router supports Auto Port Forwarding function and set < Auto Port Forwarding > to “Enable”, system will automatically forward port to router.

DNS: DNS server is generally provided by local ISP. Herein please enter the IP address of your DNS



Picture 5-28

When selecting DHCP from the Type, A router will automatically allocate IP address for your DVR. After restarting each time, the IP address captured by your DVR may be different. So, port forwarding is required when you visit a remote DVR.

1. Select DHCP and click [Save] button;
2. Exit and restart DVR;
3. Input media port and web port
4. Set IP address captured by DVR and web port to a router
5. Visit a remote DVR

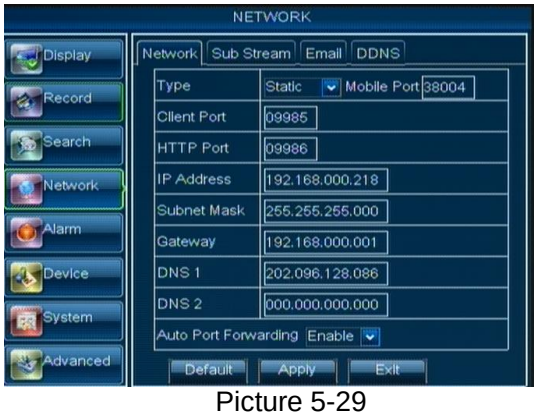
   http: // public net IP: web port (such as: 8080)

   http: //intranet IP: web port (such as: 8080 - only use for Intranet)
6. Input the IP address of your domain name server

Friendly Reminder:

1. **All the parameters you set are available only when you click [Apply] and after system are restarted.**
2. **User need to change MAC address when there are multiple DVRs at the same local area network.**

When selecting Static from the Type, user can directly input IP address, Subnet Mask, Gateway and DNS shown as below picture 5-29.



Picture 5-29

1. Set your net type to Static;
2. Set media port number (such as 9000), and the port need to be forwarded to a router.
3. Input web port number (such as 8080), and the port need to be forwarded to a router;
4. Input a specified IP address to [IP address] column;
5. The Subnet Mask, gateway and DNS server should be consistent with your router's configurations.
6. Input DNS address. Please check router firstly. The setting should be consistent with router's
7. Click [Apply] button
8. Now you could remotely visit the DVR via IP

   http: // public net IP: web port (such as: 8080)

   http: //intranet IP: web port (such as: 8080 - only use for Intranet)

Picture 5-30

When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Media and Web port. And now you can visit your remote DVR by using the IP address captured after registering a domain name and web port and connect to your DVR via public network.

5.3.4.2 Mobile Set

The DVR is currently compatible with mobile phones running Android, Windows Mobile, Symbian operating systems, Iphone and Blackberry on 3G networks.

Click [Main menu→Network] to enter into the [Network] interface shown as Picture 5-27.

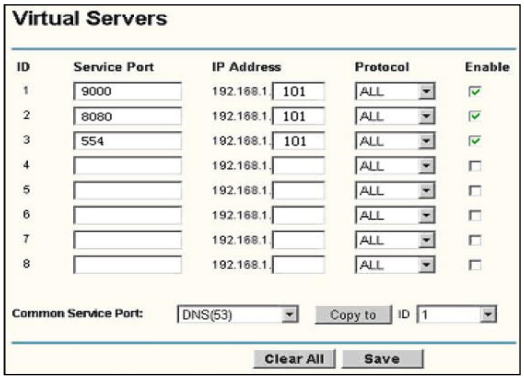
Mobile port: Mobile monitoring port. Setting range is between 1024 and 65535.

Please note that the server port could not duplicate the port you have set to network set.

5.3.4.3 Router's Port Forwarding

Port forwarding is required when you want to access the DVR connected to the router from outside of the router's network.

If PPPoE is selected, port forwarding is not required.



Picture 5-31

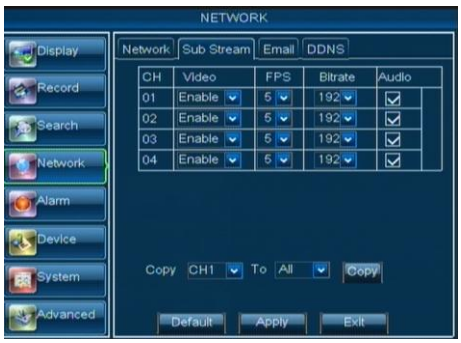
1. Input router's IP address from IE-based browser to open the Router configuration interface shown as Picture 5-31;
2. Click [Transmittal rule] option to take you to the port forwarding instructions for your router;
3. The DVR IP address for the intranet should be <192.168.1.101>, you should forward server port and web port to this IP address respectively.
4. Now user can visit the DVR remotely.

Friendly Reminder: The router's port forwarding interface may be different, however, when entering into virtual server, user will always need forward port (range: 1025~65535) of router to IP address of DVR allocated or automatically captured, and select [All] or [Both] in corresponding protocol column and save the above setting.

Above steps may differ from the router device depending on the manufacturer.

5.3.4.4 Sub stream

Go to [Main menu→Network→Sub Stream] to enter into the interface shown as Picture 5-32

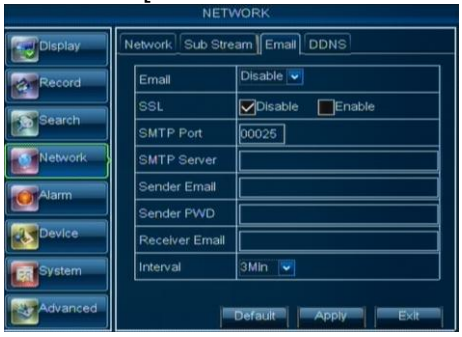


Picture 5-32

- **Video:** allow you open or close the sub stream output. If you select "Enable" system will select sub-stream preview and guarantee image quality once network is unstable.
- **Frame rate:** allow you set net transmittal frame rate. User could select the relative value by pull-down menu.
- **Bit rate:** allow you set net transmittal bit rate. User could select the relative value by pull-down menu.
- **Audio:** When tick-selecting the option, system will record video and audio simultaneously.

5.3.4.5 Email set

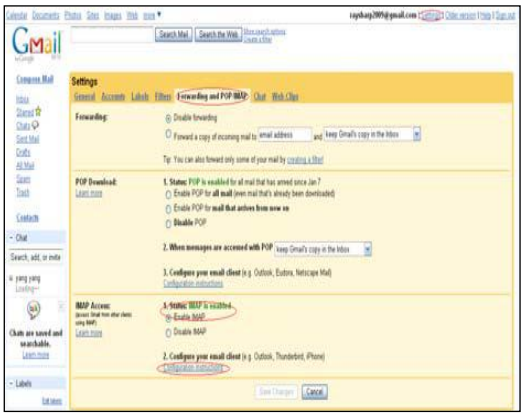
Click [Main Menu→Network→Email] option to enter into the email set interface shown as Picture 5-33



Picture 5-33

SSL: is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password.

Please set SSL to "On" via Gmail.com server, and set to "Off" via other mail server.



Picture 5-34

- **SMTP Port:** indicate one kind of mail transmittal port opened by Simple Message Transfer Protocol (SMTP). The port number for most mails is 25 except such as Gmail server (Port No.: 465).
- **SMTP server:** indicates server address you used.
- **Sender address:** indicates sender's email address. The email address should be consistent with the server you use. That is to say, when you use email address – aaa@gmail.com, the according server should be smtp.gmail.com.

- **Receiver address:** indicates receiver's email address. The email address is used to receive image transmitted from DVR alarm. Please clear the images you have received as soon as possible to avoid overloading your email account.

5.3.4.6 DDNS Set

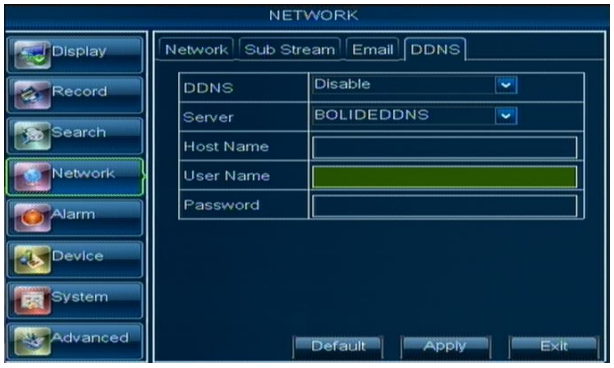
DDNS (Dynamic DNS) is a service that register a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP address is changed in a dynamic IP system.

User can visit a remote DVR by using DDNS on above three types (Static, DHCP and PPPoE)

You can apply for a DDNS account for free at the web www.bolideddns.com

.

You can register on www.bolideddns.com and get a domain name, user name, and password.



Picture 5-35

- **Server:** select DDNS provider
- **Host name:** input the host domain name you have registered at dynamic domain name system, such as: DVR2009.3322.org;
- **User Name:** Input a user name registered before applying for a domain name;
- **Password:** Input a password you set when registering a user name.

Click [Apply] button and restart the DVR; and then enter the domain name (such as: http://bolideddns:8080) to visit your remote DVR.

5.3.5 Alarm

5.3.5.1 Motion

Click [Main menu→Alarm→Motion] to enter into the interface shown as Picture 5-36

- **Channel:** allow you enable/disable the motion function for any channel.

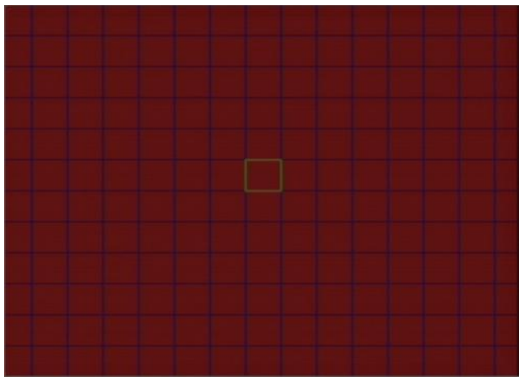
- **Area:** Click the [Setup] button to enter into area setup interface shown as Picture 5-37.
- **Sensitivity:** allow you to set sensitivity level of motion detection from higher to low with 8 being the most sensitive.
- **Alarm out:** allow you connect external alarm sensor.

Picture 5-36

4CH

8CH

- **Latch time:** you can set how long the alarm devices will sound when object move is detected (10s, 20, 40s, 60s);
- **Show Message:** You can set show message on the screen when motion alarm is detected.
- **Buzzer time**: you can set how long the buzzer will sound when motion is detected (10s, 20, 40s, 60s);
- **Send Email**：Allows you set the alarm images is issued to a specified email.
- **Full screen:** The function is defaulted to “On". When the motion is detected, the corresponding channel will be switched to the full screen mode.
- **Record Channel**: the record channel will be activated when the object move is detected.
- **Post Recording**: you can set how long alarm record will last when alarm ends (30s, 1minute，2minute，5minute).



Picture 5-37

- **Copy:** allow you copy current channel parameters to any other channel or all channels.

The channel will be separated into a 36x44grids (PAL mode) or 30x44grids (NTSC mode). When any object moves into the motion detection area, and the area where the object is located is displayed in red and motion detection will be triggered. In the semi-transparent area the motion detection is not activated.

5.3.5.2 Alarm Set

Click [Main Menu→Alarm→Alarm] to enter into the below window shown as Picture 5-38. Now you can perform alarm set based on different status.

- **Alarm In:** allow you select one desired channel
- **Alarm Type:** allows you select the three options – NO (Normal Open), NC (Normal Close) and Disable. Set to “Normal Open”, I/O status Alarm will be activated while sensor is ON; set to “Normal Close”, I/O status alarm will be activated while sensor is OFF; set to “OFF”, I/O status alarm will not be triggered.
- **Alarm out:** allow you connect external alarm sensor.
- **Latch time:** you can set how long the alarm devices will sound when external sensor alarm is detected (10s, 20, 40s, 60s);
- **Show Message:** You can set show message on the screen when sensor alarm is detected.
- **Buzzer time:** you can set how long the buzzer will sound when sensor alarm is detected (Off, 10s, 20, 40s,

60s);

- **Send Email**：Allows you set the alarm images is issued to a specified email.

Picture 5-38 4CH 8CH

- **Full screen Alarm:** The function is defaulted to “On". When the motion detection or external alarm is triggered, the corresponding channel will be switched to the full screen mode.
- **Record Channel:** allow you select channels you want to record.
- **Post Recording:** you can set how long alarm record will last when alarm ends (30s, 1minute，2minute，5minute);
- **Copy:** allow you copy all the setting of one channel to other ones.

Alarm Type	Function
Video Loss	Sends alarm when DVR can’t receive video signal (such as camera damage, cable broken or damaged or power supply malfunction).
Motion Detection	When an object moves into motion detection area, alarm will be triggered. You can adjust sensitivity level to suit the needs of your actual application environment.
I/O Status	System can convert alarm signal triggered by external sensor into signal identified by system.
HDD Error	When Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, and free space is not enough, an alarm will be triggered.

List 5-1

5.3.6 Device

5.3.6.1 HDD Set

Click [Main menu→Device→HDD] to enter into the interface shown as Picture 5-39.

When DVR is connected to a HDD, the system will automatically detect if HDD is normal or not;

If the cable connected to HDD is loosen or HDD is abnormal, HDD status will be shown as “H”, or, If HDD need to be formatted, status will be shown as “H”.

- **NO:** indicate HDD no pre-seted by system.
- **State:** It will be available only when HDD have been formatted.
- **Total Space –** Total size of the hard drive currently installed.
- **Free Space –** Total amount of free space available on the hard drive currently installed.

Picture 5-39

Picture 5-40

- **Overwrite –** When set to ENABLE the DVR will record over the oldest files on the hard drive. The DVR will always be able to record events as they happen, however, it does mean that you'll need to get important events off the HDD before they're overwritten; and if overwrite is set to DISABLE the DVR will stop record once the DVR is full. Whilst you won't lose old footage, you run the risk of missing new events as they happen. Be sure you want to do this before selecting it.
- **HDD Format –** Formatting the HDD will erase all data (i.e. footage) which is stored on it, and re-create the FAT (file allocation table).
- **USB Format -** If you have a USB flash drive connected to the DVR, you can format that, too. To do this, click the [USB Format] button and click [OK].
- **Note:** It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. So, strongly suggest that you do format the HDD before start the first record.

5.3.6.2 PTZ Set

Click [Main Menu→Device→PTZ] to enter into the below window shown as Picture 5-41

Picture 5-41

You could select the channel you desire to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Data bit (8, 7, 6, 5), Stop bit (1, 2), Parity Check (None, Odd, Even, Mark, Space), Address Code and Cruise status respectively. Please note the PTZ device can be activated only when a channel in connection with the PTZ camera is selected.

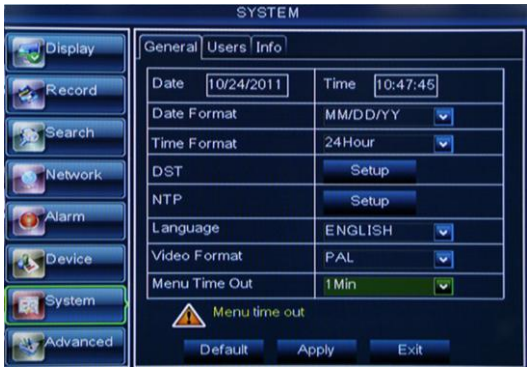
5.3.7 System

5.3.7.1 General

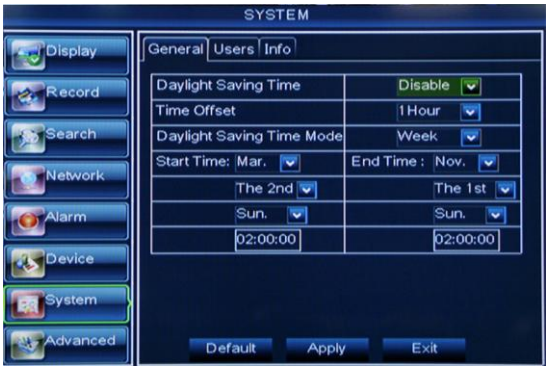
Click [Main Menu→System→General] to enter into the interface shown as Picture 5-42.

You will be allowed to modify system date, time, date/time format, language, video format and Menu time out.

And click [DST Setup] button to enter into the below interface shown as Picture 5-43.



Picture 5-42



Picture 5-43

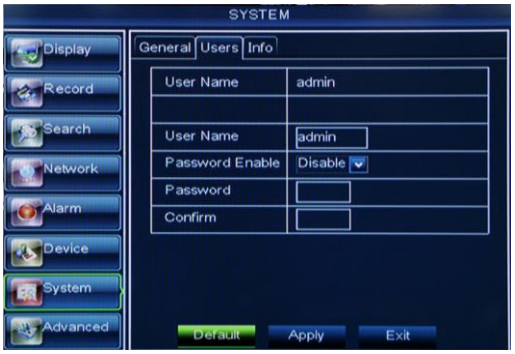
5.3.7.2 Users

Click [Main Menu→System→users] option and then enter into the interface shown as Picture 5-44. The model supports up to seven users with one Admin and six users.

Click [Edit] button to enter into the [User Edit] interface shown as Picture 5-45

User name consist of eight characters, password consist of 0~9 and its fixed-length is 6 bit.

Picture 5-44



Picture 5-45

[Admin] is authorized to set common user's authority.

- **Log Search:** allow you check the entire system log.
- **Parameter:** allow you set all the parameters.
- **Maintain:** allow you update version, recover ex-factory value, device reboot and shut down.
- **Disk Manage:** allow you manage and control the HDDs.
- **Remote Login:** allow you remote login DVR.
- **SEQ Control:** allow you sequence live screens for all the channels.
- **Manual record:** allow you manually start/stop record.
- **Backup:** Tick-select the option, the user is allowed to backup the record of all the channels.
- **Live:** Tick-select the option and the user is allowed to view all the live images for all the channels.
- **Playback:** Tick-select the option and the user is allowed to playback the record you selected.
- **PTZ control:** Tick-select the option and the user is allowed to perform the PTZ operation for the selected channel.

Picture 5-46

5.3.7.3 Information

Click [Main Menu→System→Info] and then enter into the interface shown as Picture 5-47

Now user can check the current Device name, Device ID, Device type, Hardware Version, MAC address, IE version and Software version etc..

Picture 5-47

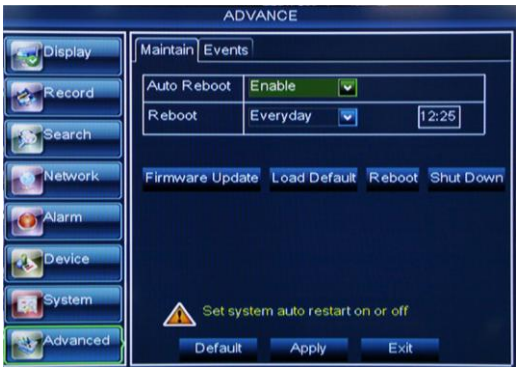
8CH

4CH

5.3.8 Advanced

5.3.8.1 Maintain

Click [Main menu→Advanced→Maintain] to enter into the maintain interface shown as Picture 5-48

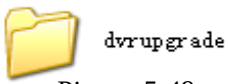


Picture 5-48

- **Auto Maintain:** You can enable the auto maintain function regularly as per user's need.
- **Auto Reboot:** you can also set system auto reboot regularly (daily/weekly/monthly) as per user's need.
- **Load Default:** If [Load Default] is selected, you can initialize the system to the ex-factory default.
- **Reboot:** Click [Reboot] button to manually restart DVR system.
- **Shutdown:** Click the [Shutdown] button to shutdown the device.

- **System Upgrade:**

1. You can insert a USB memory into USB port for updating;
2. Do not take out the USB memory or break the power during the update.
3. When the update is done, system will be automatically restarted.
4. Please manually recovery ex-factory default after system rebooting.



Picture 5-49

5.3.8.2 Event

Click [Main menu→Advanced→Event] to enter into the <Event> interface shown as Picture 5-50

Picture 5-50

- **Event Type:** support the three abnormal types: Disk Full, Disk Error and Video Loss.
- **Enable:** allow you activate abnormal alarm.
- **Alarm out:** select [Enable] or [Disable]
- **Latch time:** you can set how long the alarm devices will sound when external sensor alarm is detected (10s, 20, 40s, 60s);
- **Show Message:** You can set show message on the screen when abnormal alarm is detected.
- **Buzzer time:** you can set how long the buzzer will sound
- **Send Email**：Allow you issue the alarm images to a specified email.

5.4 Menu Lock

Considering a system safety feature you can click [ ] icon to lock system interface when leaving the DVR. If you want to login to the DVR again, you would input device code and password to unlock the interface shown as Picture 5-51

Picture 5-51

Friendly Reminder: Administrator has full authority over Main Menu operations and has an authority to limit common user's operation.

5.5 Split mode

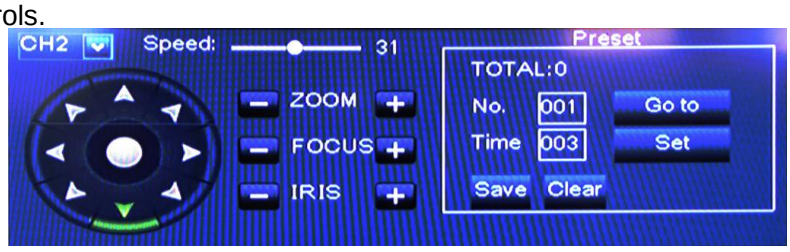
The model displays 4/8/16 live images in the sequence of single, 4-split, 9-split and 16-split modes.

If you enter into 4-split mode, the live images will be displayed in turn CH1~4, CH5~8…and CH13~16.

If you enter into 9-split mode, the live images will be displayed in turn CH1~9→CH10~16.

5.6 PTZ Control

We introduced setting PTZ parameters previously in section 5.3.6.2 – PTZ Set. Here we will discuss how to operate PTZ controls.



Picture 5-52

Click the [ ] icon to enter into [PTZ control] menu shown as Picture5-54. Now user can control the camera with Pan, Tilt and Zoom capabilities.

Click [Zoom-/+] button to zoom in / out the image; Click [Focus -/+] button to focus the image; Click [Iris -/+] button adjust iris to open or close.

Cruise Set

Open auto cruise function on PTZ setting menu if you want to setup cruise function (system default: off),

and set up cruise channel, cur point and total quantity and stop time etc.

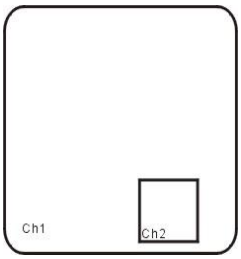
How to set pre-set point

- **Total:** set up pre-set point quantity
- **Cur Point:** indicates starting point cruised. System default point is 01. The model support up to 255 pre-set points.
- **Stop time:** sets the stop time at each point
- **GOTO:** allow you go to a specific preset point.
- **Set:** allow you set a set of specific preset points of a PTZ camera.
  1. Select a camera you desire to set a preset point;
  2. Adjust the camera in a desired direction;
  3. Click [Set] to set the point as preset point;
  4. Click [Save] to save the preset point;
  5. Follow the above step to add one more preset point.
- **Save:** save all the preset points
- **Clear**: allow you delete one selected preset point.

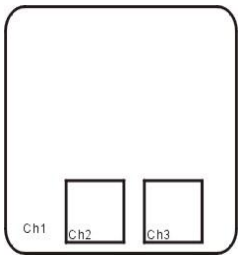
Note: Up to 255 pre-sets per one camera can be stored. However, actual preset quantity differs depending on PTZ performance.

5.7 PIP Mode

You can display a Picture-in-Picture in live mode. PIP has two display modes, including 1X1 display mode and 1X2 display mode.



1x1 display mode



1x2 display mode

5.8 Record search

You could enter into [Record Search] menu from Pop-up menu conveniently and quickly and search/playback the record histories. We introduced Record search details previously in Section 5.3.3.1.

5.9 Mute

Click the [ ] icon, or press <Mute> button on the front panel and Remote controller to control the mute of DVR.

5.10 Manual Record

You can start manual record function, or you also can click [REC] button on the Front panel or Remote controller to activate manual record. Please stop record manually once you activate manual record.

5.11 Stop record

To stop record quickly, please click the icon [ ] or [Stop] button on the front panel or remote controller.

5.12 Start Sequence

In the single mode, when entering into [Start sequence] menu, auto-sequence will be conducted at the set interval. Details please refer to section 5.3.1.2.

5.13 Start Cruise

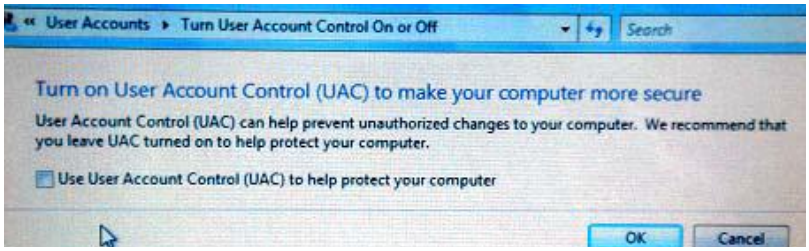
If multiple presets are specified, the PTZ camera will automatically move to the entire preset one at a time whilst user activates [Start Cruise] options. If you want to stop cruise, please click [] icon on the [Tool] column.

Chapter 6:Web Application Manager

6.1 Plug-in download and installation

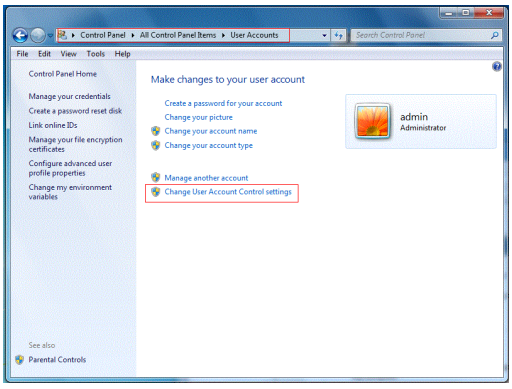
Open your web browser and input the IP address and web port of DVR, such as：http://172.18.6.202:8080/ . If your computer is connected to internet, it will download and install “ActiveX” Plug-in automatically. If your computer system is Vista, you may need to setup the user authority. Details please refer to the below picture: Start →setup→ control panel （Tick“√” use UAC to help protect your computer and confirm OK）.

Vista system:

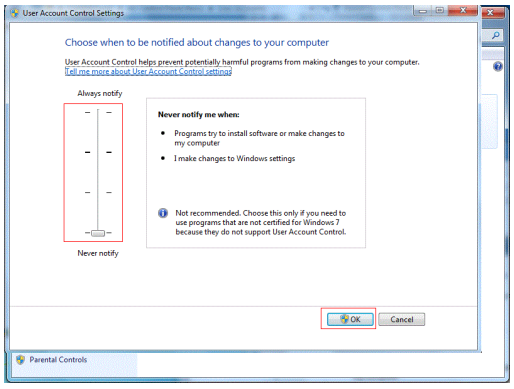

User Accounts ▸ Turn User Account Control On or Off
Search
Turn on User Account Control (UAC) to make your computer more secure
User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer.
Use User Account Control (UAC) to help protect your computer
OK
Cancel

Vista

Win-7 system:

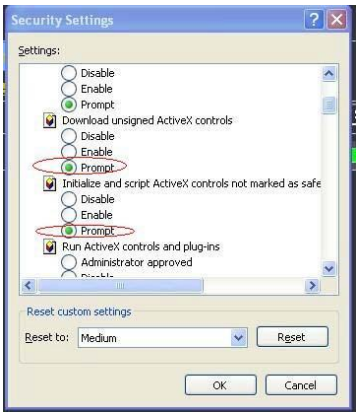

Control Panel ▸ All Control Panel Items ▸ User Accounts
Make changes to your user account
admin
Administrator
Change User Account Control settings

WIN7-1



WIN7-2

Reminder: If the plug-in program is not downloaded successfully, please check if your browser’s safety level or firewall setting is too advanced.Please run IE →Tools→Internetoptions→Internet Custom level→Enable the options (details please refer to the below Picture 6-2).



Picture 6-1

If running the web application for the first time,you need about one minute to finish download and install plug-in, please wait patiently.

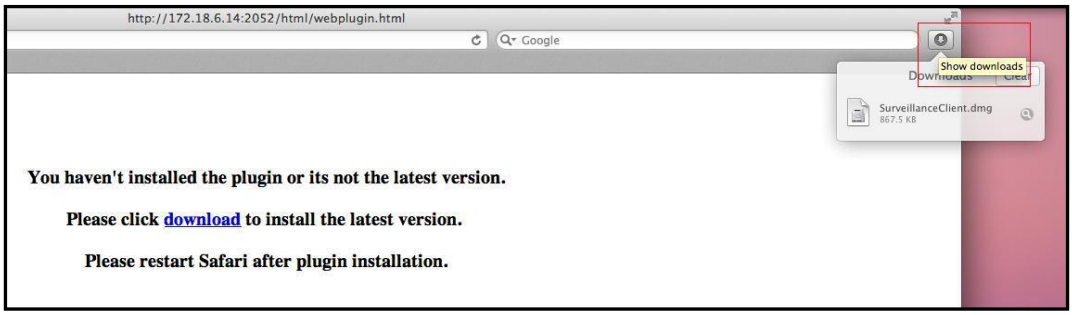
Note: If you want to use the undated webcam at one computer which you already login before, please delete the old IE webcam and click [Start→Run] to input the command characters: "regsvr32/u HiDvrOcx.ocx", then login again.

MAC system：

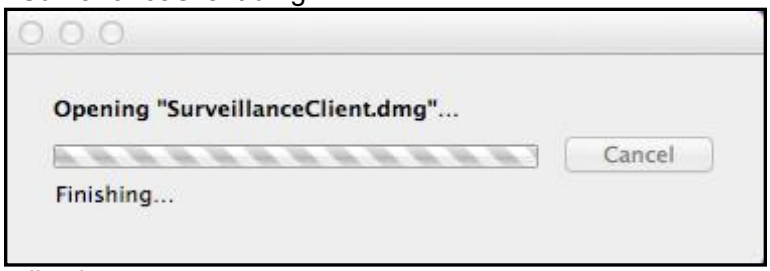
（1）Open Safari Brower and input IP address and port of DVR, and then system will pop up the below Picture.

http://172.18.6.14:2052/html/webplugin.html
http://172.18.6.14:2052/html/webplugin.html
Google
baidu 2052 Apple China YAHOO news hot
You haven't installed the plugin or its not the latest version.
Please click download to install the latest version.
Please restart Safari after plugin installation.

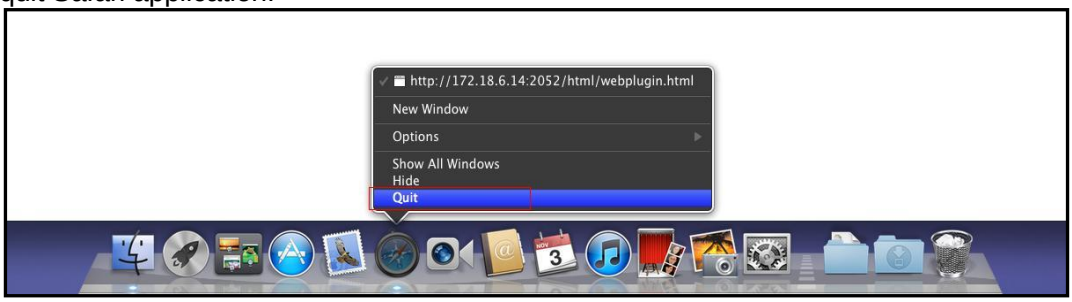
（2）Click <Download> button to download its Plug-in, and then click <Show Downloads> to show the downloaded plug-in shown as below picture.


http://172.18.6.14:2052/html/webplugin.html
Google
Show downloads
SurveillanceClient.dmg
867.5 KB
You haven't installed the plugin or its not the latest version.
Please click download to install the latest version.
Please restart Safari after plugin installation.

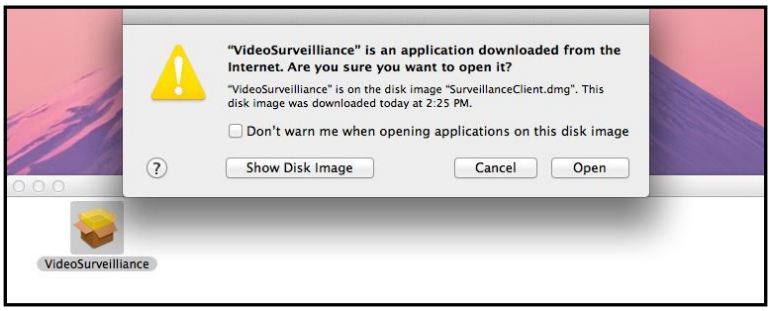
（3）Open the Plug-in –"SurveillanceClient.dmg".



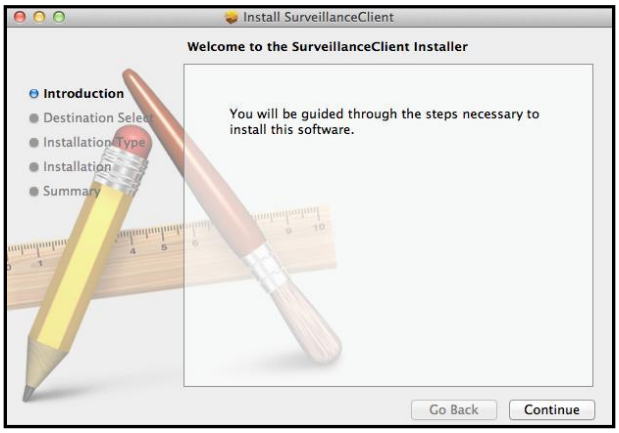
（4）Then quit Safari application.



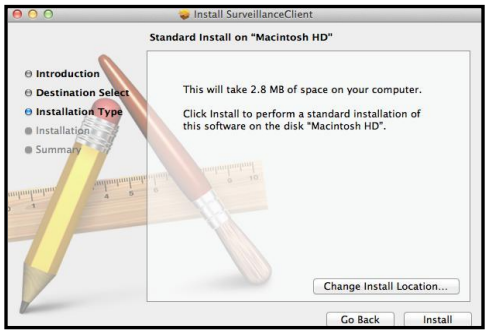
（5）After quitting Safari, The <VideoSurveilliance> application will appear in the desktop. Please double-click the <VideoSurveilliance> file and then click <Open> button.


"VideoSurveilliance" is an application downloaded from the Internet. Are you sure you want to open it?
"VideoSurveilliance" is on the disk image "SurveillanceClient.dmg". This disk image was downloaded today at 2:25 PM.
Don't warn me when opening applications on this disk image
Show Disk Image
Cancel
Open
VideoSurveilliance

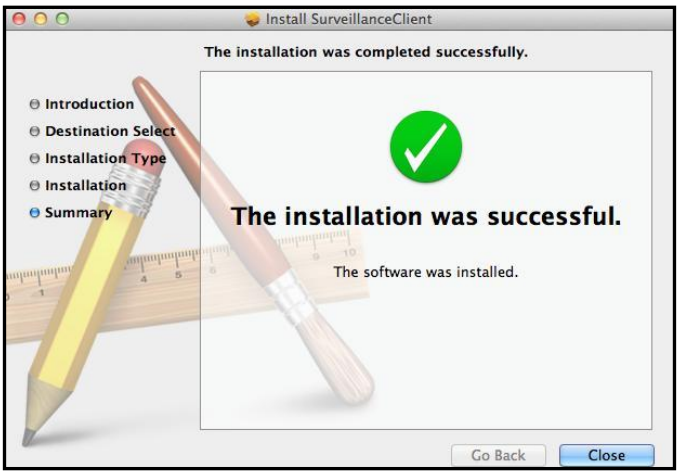
Click <Continue>



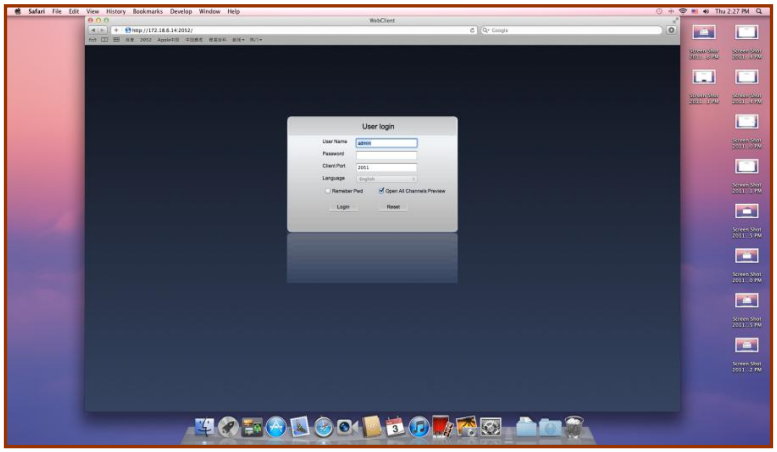
Click <Install> button, system will pop up user login interface. Please type your password and click <Install Software> button shown as Below Picture.



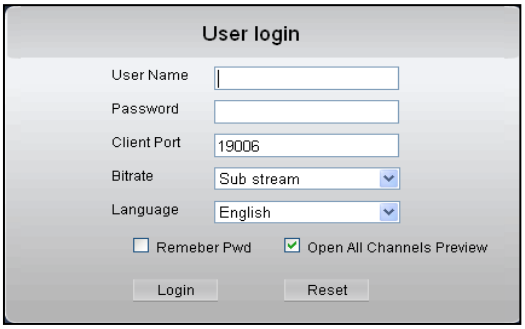
After the installation was completed successfully, click <Close> button.



（6）Type your IP address and port of DVR again to enter into the <SurveillianceClient> application.



6.2 Web Application Manager Log-in



Picture 6-2

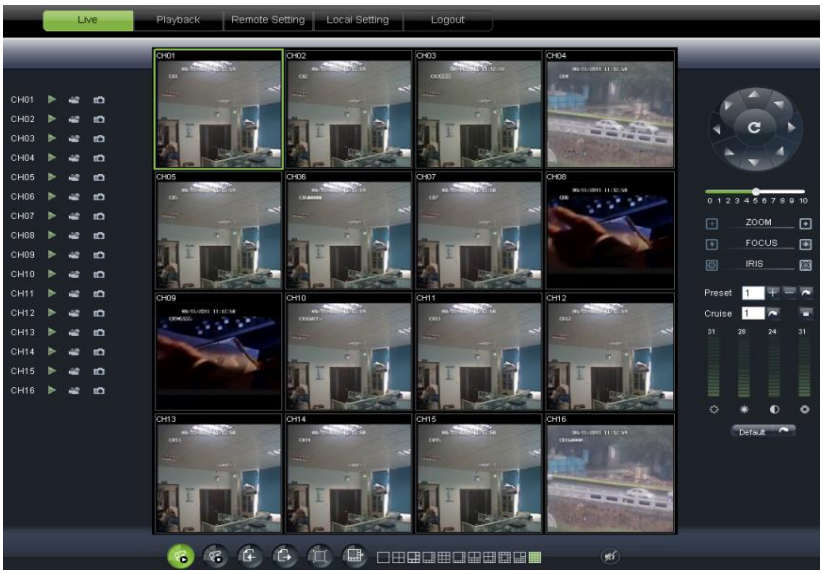
After plug-ins installation, please input user name, password and client port; and select <Main stream> or <sub stream>, and then allow you tick-select <Open All Channels Preview>;

Now you click [Log-in] button, and then you are allowed to access a remote DVR and monitor live video images using Web browser anytime from virtually anywhere.

Noted that defaulted password is empty. System allows Administrator to set new password as per instructions in section 6.3.3 - [System set→User Configuration] menu.

6.3 Live interface

After successful logging-in web manager, you will enter into the Live interface shown as Picture 6-3



Picture 6-3

6.3.1 Menu Bar

Menu bar include [Live], [Playback], [Remote Setting], [Local Setting] and [Logout] options

6.3.1.1 Live Display

After running the Web Application Manager on your local PC, system will be defaulted to enter into <Live>interface shown as Picture 6-3. You can click [Play] button to Open/close live images and enter into

on-spot record and Capture, quad, 9-split or 16-split mode by operating the control bar on the bottom of screen.

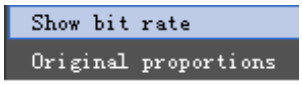
: Volume switch;

: Record icon: record will be saved to a specified position after starting record.

: Snapshot function: allow you capture the live images and save it to a specified position. The image should be saved as *.bmp format.

: clicking the icon will close/open the current channel's live mode

Or click the right key of mouse on each <Live> window to pop up the interface shown as Picture 6-4.



Show bit rate: show current bit rate;
Original Proportions: show original proportions.

: CH Display mode

: Allow you open all the <live> channels.

: Allow you close all the <live> channels.

: Display previous channels

: Display next channels

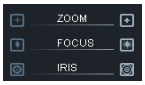
: Click the icon to enlarge current window to full screen; right-click to pop-up menu options, now allow you select <Exit full screen>

6.3.1.2 PTZ Control

① PTZ moving Direction control: allow you control PTZ camera's direction. And the middle button is called [Auto-cruise] button.

②

PTZ speed control bar

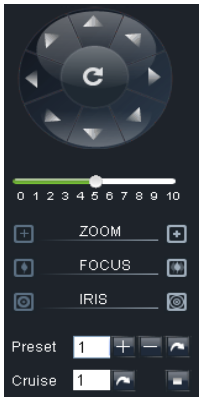
③ 

:Iris, Focus and Zoom control

④

: Preset setting/clear; Start cruise /stop cruise

6.3.1.3Video control



Picture 6-5

Picture 6-6

: Adjust video Hue;

: Adjust video brightness;

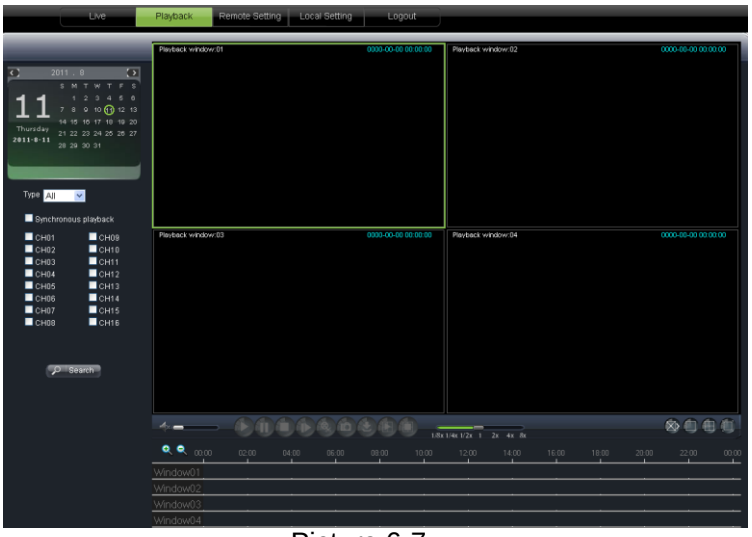
: Adjust video Contrast;

: Adjust video saturation;

: Recover ex-factory default

6.3.2 Playback

Click [Playback] icon to enter into <playback> interface shown Picture 6-7.

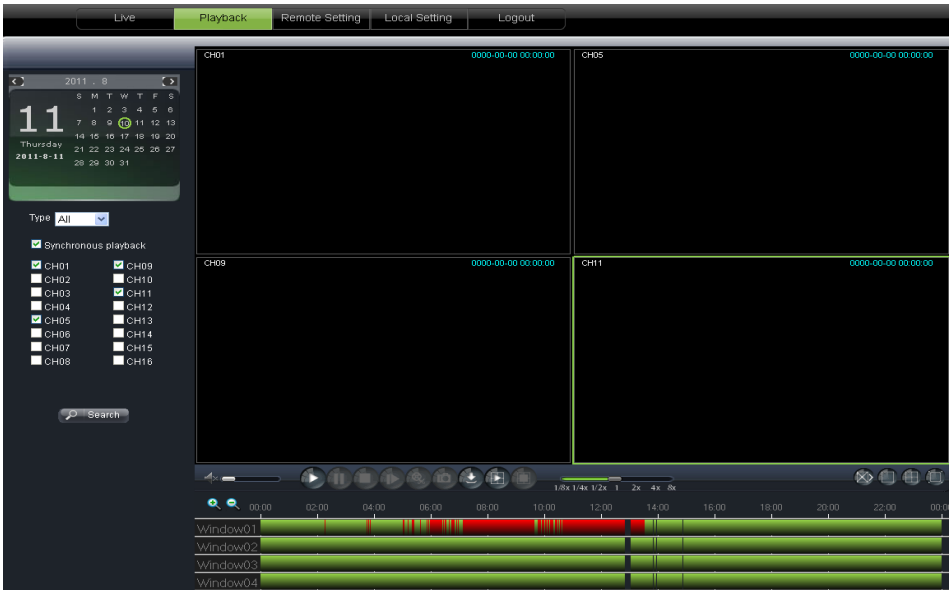


Picture 6-7

The Web Application Manager supports up to 4 channels playback simultaneously.

6.3.2.1Record search

Firstly, select one day you want to check and tick-select <synchronous Playback> and the channels you desire to playback shown as Picture 6-8



Picture 6-8

Secondly, select record type (Normal record, Alarm record and All) and then click <Search> button shown as Picture 6-9. On the time axis, red part stand for alarm record, green stand for normal record and original part stand for no record during this period.

Picture 6-9

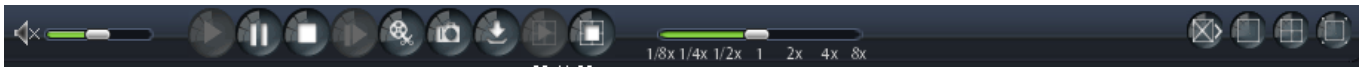
If you tick-select <Synchronous playback> option, that means the selected channel will playback synchronously; otherwise, you could separately control the channels playback.

Thirdly, Click [ ] icon to start record playback. When mouse curse is moving on the time axis, the current time will appear in the screen.

Click [/] icon to zoom in/out the time bar display ratio.

6.3.2.2 Playback control

Below Picture 6-13 is playback control bar



Picture 6-10

Detail brief description is shown as below list

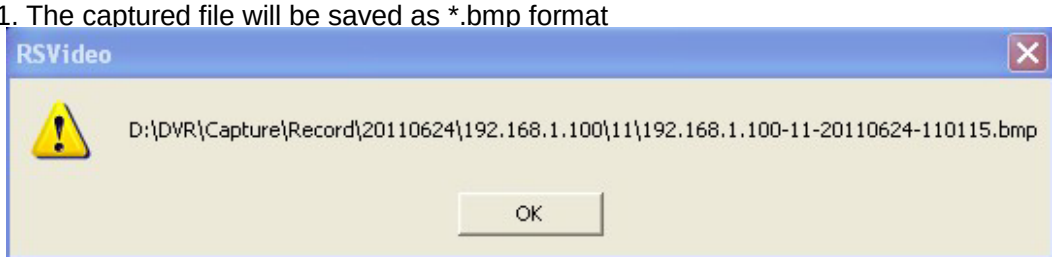
Key	Description	Key	Description
	Play		Open/close audio
	Pause		Volume adjust
	Stop	1/8x 1/4x 1/2x 1 2x 4x 8x	Playback control bar (x1/2,1/4,1/8, normal, x2, x4, x8)
	By frame		Stop all the play
	Clip		Single channel mode
	Capture		Quad mode
	Download		Full screen
	Open all the channels		
	Stop all the channels		

Record file clip

After opening playback, click [icon to clip the selected file; and click again to stop the clip function. Record clip file will be saved as *.264 format.

Snapshot function

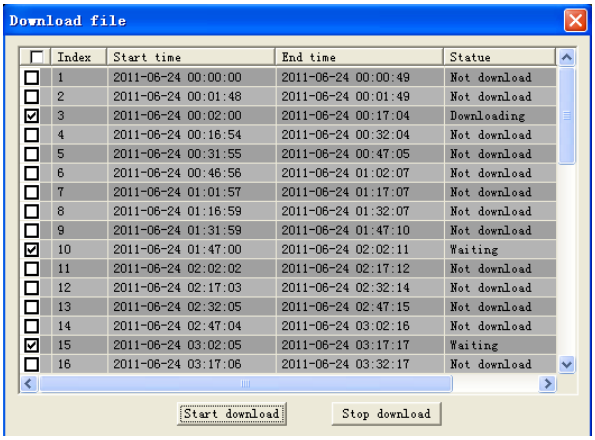
Move the mouse curse to the channel you want to capture, and click [ ] icon to capture the live images remotely. After capturing the images successfully, you are allowed to save it to a specified path shown as Picture 6-11. The captured file will be saved as *.bmp format



Picture 6-11

Record file download

Click [ ] icon to enter into the below interface shown as Picture 6-12.



Picture 6-12

Tick-select the record file you want to download and click [Start download]

System will download the record file in turn and save to local PC.

6.3.3 Remote Setting

Click [Configuration] option to enter into the [Config] interface shown as Picture 6-13 and allow you set Display configuration, Record, Network, Alarm, Device, System parameters and Advance according to your actual request.

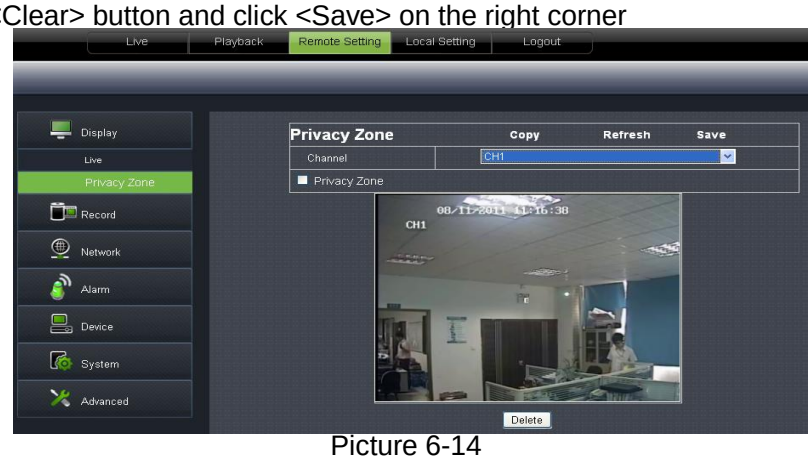
6.3.3.1 Display Configuration

Unfold [Display] option to find its sub-options: Live and Privacy zone

1、**Live:** Allow you modify channel name, Position, Show time and Record time. If show time is set to <disable>, current system time will not appear on the screen on Live mode; and if record time is set to <off>, system time can't be found in the record file.

Picture 6-13

2、**Privacy zone:** Each channel could set up to four privacy zones shown as Picture 6-14. Details parameters please refer to section 5.3.1.3. If you want to delete one privacy zone, please firstly select one zone, and then click <Clear> button and click <Save> on the right corner



Picture 6-14

6.3.3.2 Record

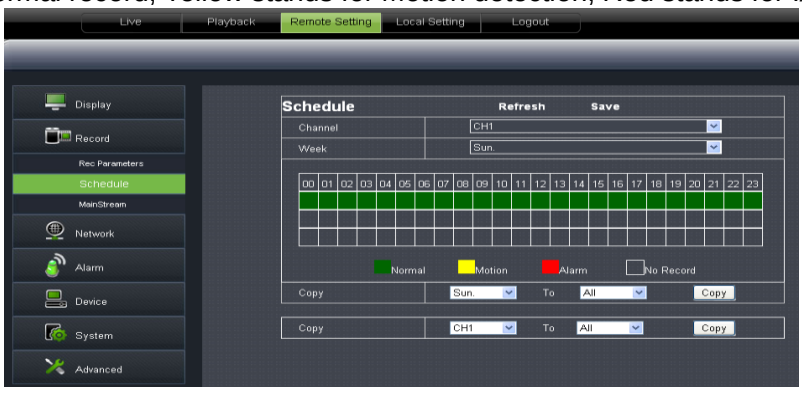
Click <Record> option to unfold its sub-options: Record parameter, Schedule and Main stream.

1、**Record Parameters:** Under [Record parameters] option, allow you set channel, record enable, pack time and Pre-record status shown as Picture 6-1

Picture 6-15

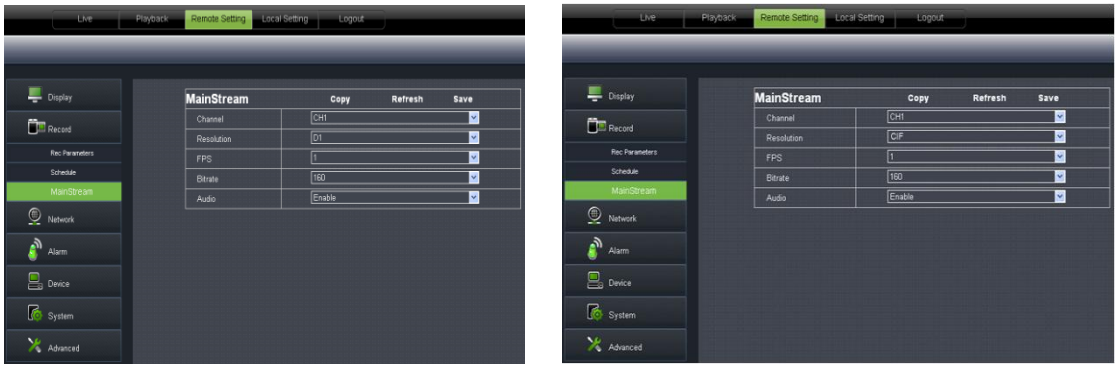
2、**Schedule:** Detailed parameters please refer to DVR local setting.

Green stand for Normal record; Yellow stands for Motion detection; Red stands for I/O triggered record.



Picture 6-16

3、**Main Stream:** detailed settings please refer to DVR local setting. Herein allow user modifies the resolution, frame rate, Bit rate and audio of the record channel.



Picture 6-17

6.3.3.3 Network Parameters

Unfold <Network> option to enter into its sub-options: Network, sub stream, Email, mobile and DDNS configuration.

1、The model support three network type, including Static, DHCP and PPPoE

Static: System default <Static> as its network type. User could allocate IP and perform Port forwarding for DVR according to different router. When set <UPNP> to “On”, user no needs to perform port forwarding. Once you modify its network parameters successfully, DVR will automatically restart.

Picture 6-18

DHCP: Set network type to “DHCP” shown as Picture 6-19. Relative parameters should be consistent with DVR local setting.

Picture 6-19

Set network type to “PPPoE” shown as Picture 6-20. Its user name and password should be consistent with DVR local setting.

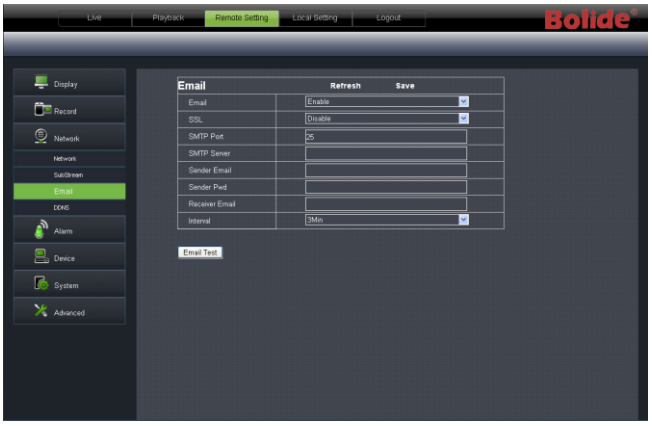
Picture 6-20

2、**Mobile** (shown as Picture 6-18): Relative parameters should be consistent with DVR local setting.

3、**Sub stream** (shown as Picture 6-21): Relative parameters should be consistent with DVR local setting.

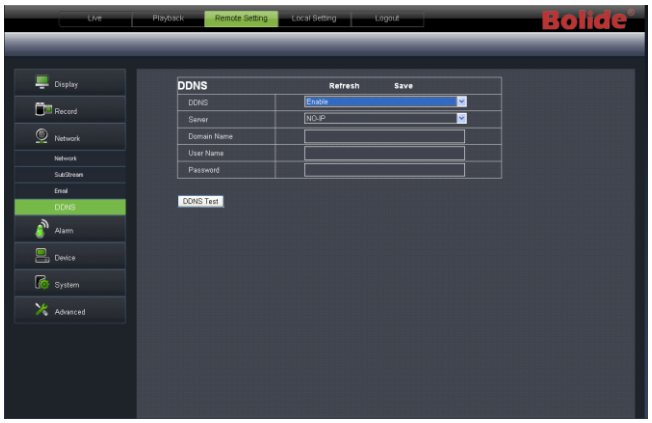
Picture 6-21

4、**Email setting:** Click [Email setting] option to allow you set alarm email configuration parameters shown as Picture 6-22. Detailed parameters should be consistent with DVR local setting.



Picture 6-22

5、**DDNS Setting**: After user applies for DDNS service shown as Picture 6-23, you could enable <DDNS> function under any one network type mode (Static, DHCP and PPPoE). Now you remotely visit the DVR through domain name (http://domain name: port No). Details setting should be consistent with DVR local setting.



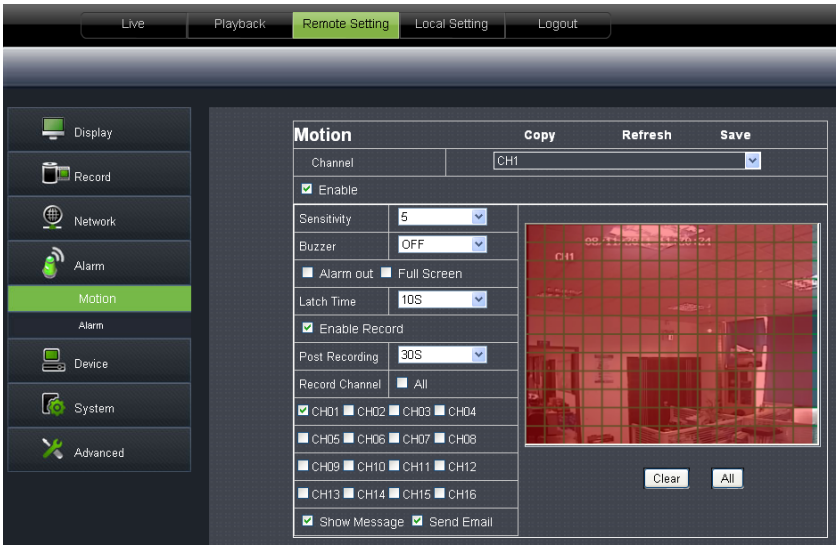
Picture 6-23

6.3.3.4 Alarm Set

Click <Alarm> option to unfold its sub-options: Motion, I/O Alarm shown as Picture 6-24.

Picture 6-24

1、**Motion Detection:** allow you configure its <Sensitivity>, <Alarm out>, <Alarm record> and <Alarm Capture> etc. Details setting should be consistent with DVR local setting (Shown as Picture 6-25).



Picture 6-25

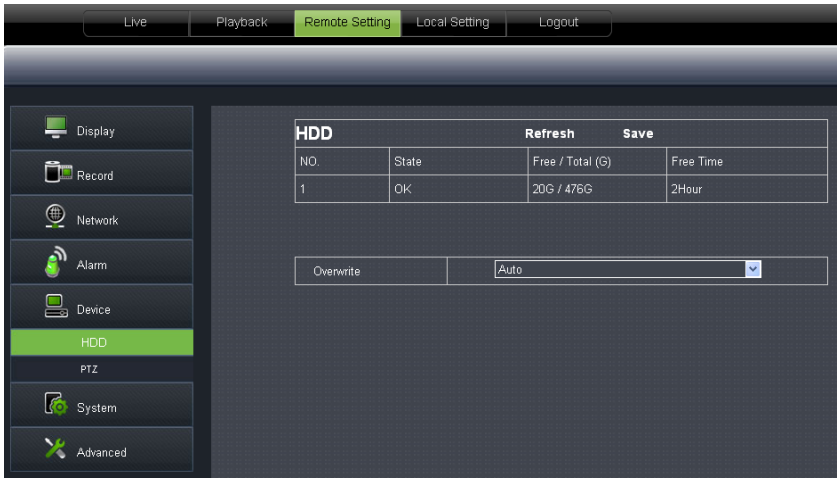
2、**I/O Alarm:** allow you configure <I/O Status>, <Alarm output>, <I/O Alarm record> and <Alarm email> etc. Details setting should be consistent with DVR local setting (Shown as Picture 6-26).

Picture 6-26

6.3.3.5 Device

Click <Device> to unfold its sub-options: HDD and PTZ.

1、HDD: allow you check out HDD status and overwritten time shown as Picture 6-27. Detail setting should be consistent with DVR local setting.



Picture 6-27

2、PTZ Configuration (shown as Picture 6-28): details setting should be consistent with DVR local setting.

Picture 6-28

6.3.3.6 System

Click <System> option to unfold its sub-options: General, Users and information.

1、**General:** User could check DVR's language and video system, and also set system time, date format, DST and NTP shown as Picture 6-29. Details setting should be consistent with DVR local setting.

Picture 6-29

2、**Users:** Allow you configure user name and password shown as Picture 6-30. Details setting should be consistent with DVR local setting.

Picture 6-30

3、**Information:** Allow you check out device name, device ID, type, MAC address, software version, IE version and hardware version shown as Picture 6-31.

Picture 6-31

6.3.3.7 Advanced

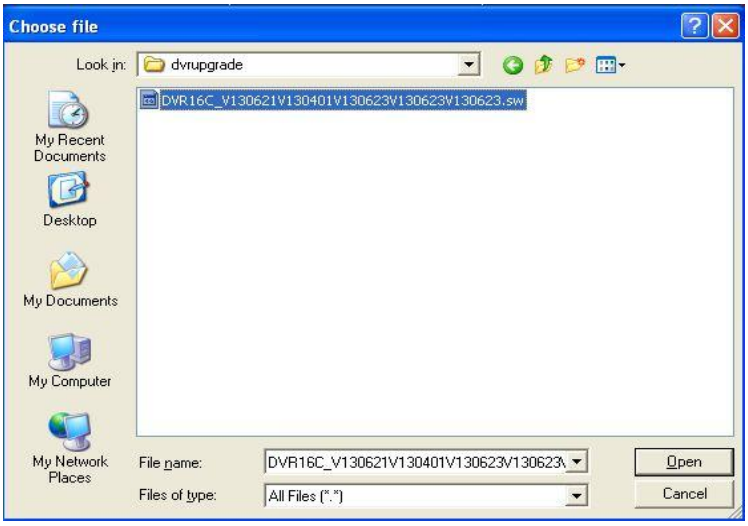
Click <Advance> to unfold its sub-options: System update, Load default, Events and system maintain etc.

1、 System update: allow you upgrade DVR system remotely shown as Picture 6-32.

Picture 6-32

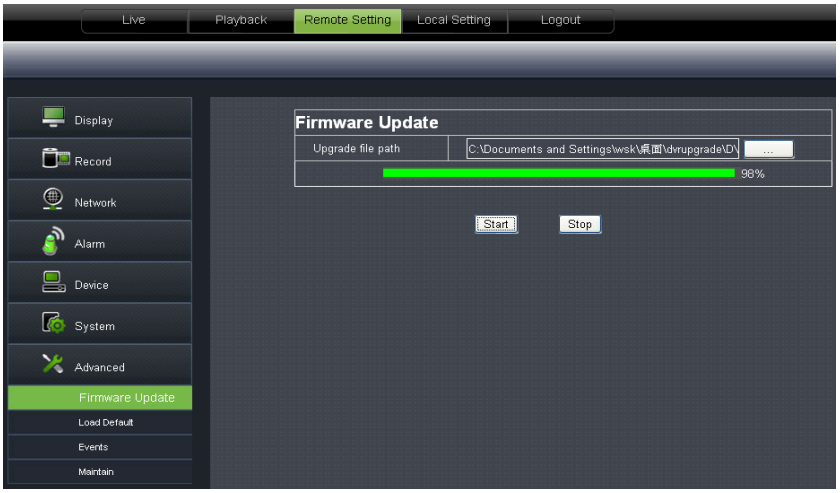
Please follow below steps to upgrade the system:

a. Select the upgrade file's path shown as Picture 6-33. Please note that the format of upgrade file is *.sw.



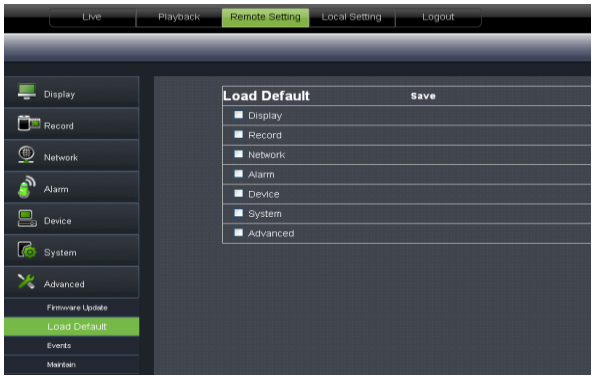
Picture 6-33

b. Click <Start update>, now processing bar will display current upgrade status shown as Picture 6-34.



Picture 6-34

2、**Load Default:** allow you recover defaulted parameters of DVR remotely shown as Picture 6-35. Details setting should be consistent with DVR local setting.

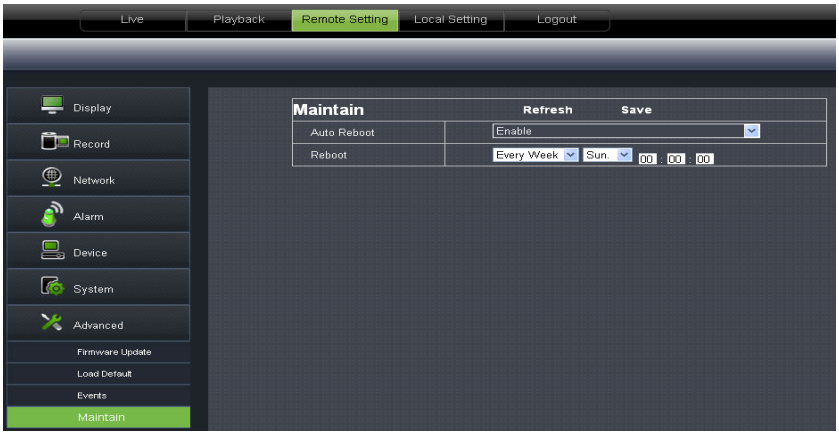


Picture 6-35

Picture 6-36

3、**Events:** allow you configure abnormal type, buzzer output time, and alarm email and show message shown as Picture 6-36. Details setting should be consistent with DVR local setting.

Maintain: allow you set auto system maintain for DVR remotely shown as Picture 6-37. Detail setting should be consistent with DVR local setting.



Picture 6-37

6.3.4 Local setting

Under <Local setting> option, user could set record path of record file (Live record and Playback clip file), download path of remote file, Snapshot path, File type (H.264 and AVI) and Internal shown as Picture 6-38.

Picture 6-38

6.3.5 Logout

Click the [

] icon to return back the log-in interface.

Chapter 7: Specification

Model No.		SVR9004HD
Video Compression		H.264
Video System		PAL/NTSC
Operation System		Linux(embedded)
Video input /output		4CH input /1CH output(BNC)
Audio input /output		4CH input /1CH output(RCA)
Display	resolution	PAL:960×576@25fps(each channel) NTSC:960×480@30fps(each channel)
	feature	single/ Quad/S.E.Q.
Record	resolution	PAL :**D1 mode:** 360x288(CIF),720x288(HD1),720x576(D1) **960H mode:**480x288(WCIF),960x288(WHD1),960x576(WD1) NTSC:**D1 mode:**360x240(CIF),720x240(HD1),720x480(D1) **960H mode:**480x240(WCIF),960x240(WHD1),960x480(WD1)
	speed	PAL: 25fps@D1 and 960H(each channel) NTSC: 30fps@D1 and 960H(each channel)
Recording Mode		Continuous/Manual/Motion detected/Alarm Activated
Playback Channel		1~4ch
Playback speed (4ch Playback Simultaneously)		PAL: 25fps@D1 and 960H(each channel) NTSC: 30fps@D1 and 960H(each channel)
Sensor & Alarm I/O		4ch sensor input&1 channel alarm out
Network		Lan, DHCP, Dynamic IP and DDNS
HDD interface		1 SATA HDD, up to 2TB
Multiplex Operation		live display, record, playback, backup and network
USB		2xUSB(for mouse and backup/upgrade)
PTZ Control		Built in RS485, support Pelco-P & Pelco-D
Mobile Surveillance		Support Mobile Phones based on Windows mobile, Symbian, iPhone, Blackberry and Android operation system
VGA		800*600, 1024*768, 1280*1024,1440*900, 1920*1080
HDMI		1080p
Power Supply		DC 12V 2A
Dimension(WxDxH)		315mmx234mmx58mm

List7-1

Model No.		SVR9008HD
Video Compression		H.264
Video System		PAL/NTSC
Operation System		Linux(embedded)
Video input /output		8CH input /1CH output(BNC)
Audio input /output		8CH input /1CH output(RCA)
Display	resolution	PAL:960×576@25fps(each channel) NTSC:960×480@30fps(each channel)
	feature	single/ Quad/Nine/S.E.Q.
Record	resolution	PAL :**D1 mode:** 360x288(CIF),720x288(HD1),720x576(D1) **960H mode:**480x288(WCIF),960x288(WHD1),960x576(WD1) NTSC:**D1 mode:**360x240(CIF),720x240(HD1),720x480(D1) **960H mode:**480x240(WCIF),960x240(WHD1),960x480(WD1)
	speed	PAL: 25fps@D1 and 960H(each channel) NTSC: 30fps@D1 and 960H(each channel)
Recording Mode		Continuous/Manual/Motion detected/Alarm Activated
Playback Channel		1~8ch
Playback speed (8ch Playback Simultaneously)		PAL: 25fps@D1 and 960H(each channel) NTSC: 30fps@D1 and 960H(each channel)
Sensor & Alarm I/O		8ch sensor input&1 channel alarm out
Network		Lan, DHCP, Dynamic IP and DDNS
HDD interface		1 SATA HDD, up to 2TB
Multiplex Operation		live display, record, playback, backup and network
USB		2xUSB(for mouse and backup/upgrade)
PTZ Control		Built in RS485, support Pelco-P & Pelco-D
Mobile Surveillance		Support Mobile Phones based on Windows mobile, Symbian, iPhone, Blackberry and Android operation system
VGA		800*600,1024*768, 1280*1024,1440*900, 1920*1080
HDMI		1080p
Power Supply		DC 12V 2A
Dimension(wxDxH)		315mmx234mmx58mm

List7-2

Model No.		SVR9016CHD
Video Compression		H.264
Video System		PAL/NTSC
Operation System		Linux(embedded)
Video input /output		16CH input /1CH output(BNC)
Audio input /output		4CH input /1CH output(RCA)
Display	resolution	PAL:960×576@25fps(each channel) NTSC:960×480@30fps(each channel)
	feature	single/ Quad/Nine/Sixteen/S.E.Q.
Record	resolution	PAL :**D1 mode:** 360x288(CIF),720x288(HD1),720x576(D1) **960H mode:**480x288(WCIF),960x288(WHD1),960x576(WD1) NTSC:**D1 mode:**360x240(CIF),720x240(HD1),720x480(D1) **960H mode:**480x240(WCIF),960x240(WHD1),960x480(WD1)
	speed	PAL: 25fps@CIF and WCIF, 12fps@D1 and HD1, 9fps@WD1 and WHD1 (each channel) NTSC: 30fps@CIF and WCIF, 14fps@D1 and HD1, 10fps@WD1 and WHD1 (each channel)
Recording Mode		Continuous/Manual/Motion detected/Alarm Activated
Playback Channel		1~16ch
Playback speed (16ch Playback Simultaneously)		PAL: 25fps@CIF and WCIF; 12fps@D1 and HD1, 9fps@WD1 and WHD1 (each channel) NTSC: 30fps@CIF and WCIF; 14fps@D1 and HD1, 10fps@WD1 and WHD1 (each channel)
Sensor & Alarm I/O		8ch sensor input&1 channel alarm out
Network		Lan, DHCP, Dynamic IP and DDNS
HDD interface		1 SATA HDD, up to 2TB
Multiplex Operation		live display, record, playback, backup and network
USB		2xUSB(for mouse and backup/upgrade)
PTZ Control		Built in RS485, support Pelco-P & Pelco-D
Mobile Surveillance		Support Mobile Phones based on Windows mobile, Symbian, iPhone, Blackberry and Android operation system
VGA		800*600,1024*768, 1280*1024,1440*900, 1920*1080
HDMI		1080p
Power Supply		DC 12V 2A
Dimension(wxDxH)		315mmx234mmx58mm

Model No.		SVR9016HD
Video Compression		H.264
Video System		PAL/NTSC
Operation System		Linux(embedded)
Video input /output		16CH input /2CH output(BNC)
Audio input /output		16CH input /2CH output(BNC)
Display	resolution	PAL:960×576@25fps(each channel) NTSC:960×480@30fps(each channel)
	feature	single/ Quad/Nine/Sixteen/S.E.Q.
Record	resolution	PAL :**D1 mode:** 360x288(CIF),720x288(HD1),720x576(D1) **960H mode:**480x288(WCIF),960x288(WHD1),960x576(WD1) NTSC:**D1 mode:**360x240(CIF),720x240(HD1),720x480(D1) **960H mode:**480x240(WCIF),960x240(WHD1),960x480(WD1)
	speed	PAL: 25fps@D1 and WD1(each channel) NTSC: 30fps@D1 and WD1(each channel)
Recording Mode		Continuous/Manual/Motion detected/Alarm Activated
Playback Channel		1~16ch
Playback speed (16ch Playback Simultaneously)		PAL: 25fps@D1 and 960H(each channel) NTSC: 30fps@D1 and 960H(each channel)
Sensor & Alarm I/O		16ch sensor input&1 channel alarm out
Network		Lan, DHCP, Dynamic IP and DDNS
HDD interface		2 SATA HDDs, up to 4TB
Multiplex Operation		live display, record, playback, backup and network
USB		2xUSB(for mouse and backup/upgrade)
PTZ Control		Built in RS485, support Pelco-P & Pelco-D
Mobile Surveillance		Support Mobile Phones based on Windows mobile, Symbian, iPhone, Blackberry and Android operation system
VGA		800*600,1024*768, 1280*1024,1440*900, 1920*1080
HDMI		1080p
Power Supply		DC 12V 5A
Dimension(wxDxH)		430mmx380mmx70mm

Chapter 8:Appendix

8.1 Record Alarm setting

Please refer the below matrix: "⊥" stand for "only alarm but no record"; "AMR" stand for "alarm record"; "NLR" stand for "normal record"; and "NOR" stand for " no record". Once alarm is triggered, alarm icon will occur, and when many alarms are triggered, alarm remarks will occur on the screen.

Record alarm setting		Alarm icon	Record Mode			
			Scheduled recording			Manual Record
			AMR	NLR	NOR	
Alarm mode	MD alarm	M	AMR	NLR	⊥	NLR
	I/O triggered alarm	I	AMR	NLR	⊥	NLR
	HDD loss, HDD Full	H	⊥	⊥	⊥	⊥
	Video Loss	Video Loss	⊥	⊥	⊥	⊥

List 8-1

In the record mode, [R] icon or [M] icon will appear on the screen. But when [I] icon and [M] icon appear on the screen that means a motion alarm is triggered. When [H] icon appears on the screen, that means HDD alarm has occurred.

8.2 Mail box server List

Web site	Mail box	Sender server（25）	Receiver server（110）
www.163.com	@163.com	smtp.163.com	pop3.163.com
	@vip.163.com	smtp.vip.163.com	pop.vip.163.com
	@188.com	smtp.188.com	pop.188.com
	@126.com	smtp.126.com	pop3.126.com
	@netease.com	smtp.netease.com	pop.netease.com
	@yeah.net	smtp.yeah.net	pop.netease.com
www.qq.com	@qq.com	smtp.qq.com	pop.qq.com
163.net		smtp.163vip.net	popx.163vip.net
www.sina.com	@sina.com.cn	smtp.sina.com.cn	pop3.sina.com.cn
www.yahoo.com	@yahoo.com.cn	smtp.mail.yahoo.com.cn	pop.mail.yahoo.com.cn
	@yahoo.com	smtp.mail.yahoo.com	pop.mail.yahoo.com
google.com	@gmail.com	smtp.gmail.com(465/587)	pop.gmail.com(995)
www.china.com	@china.com	smtp.china.com	pop.china.com
www.sohu.com	@sohu.com	smtp.sohu.com	pop.sohu.com
Mail.163.com		smtp.163.net	pop.163.net
Mail.163vip.com		smtp.163vip.net	pop.163vip.net
Mail.tom.com	@tom.com	smtp.tom.com	pop.tom.com
Mail.263.com	@263.net	smtp.263.net	pop3.263.net
x263.net		smtp.x263.net	pop.x263.net
263.net.cn		smtp.263.net.cn	pop.263.net.cn
139 mail box	@139.com	smtp.139.com	pop.139.com
21cn.com		smtp.21cn.com	pop.21cn.com
Vip.21cn.com		vip.21cn.com	vip.21cn.com
etang.com		smtp.etang.com	pop.etang.com
elong.com		smtp.elong.com	pop3.elong.com

8.3 Troubleshooting

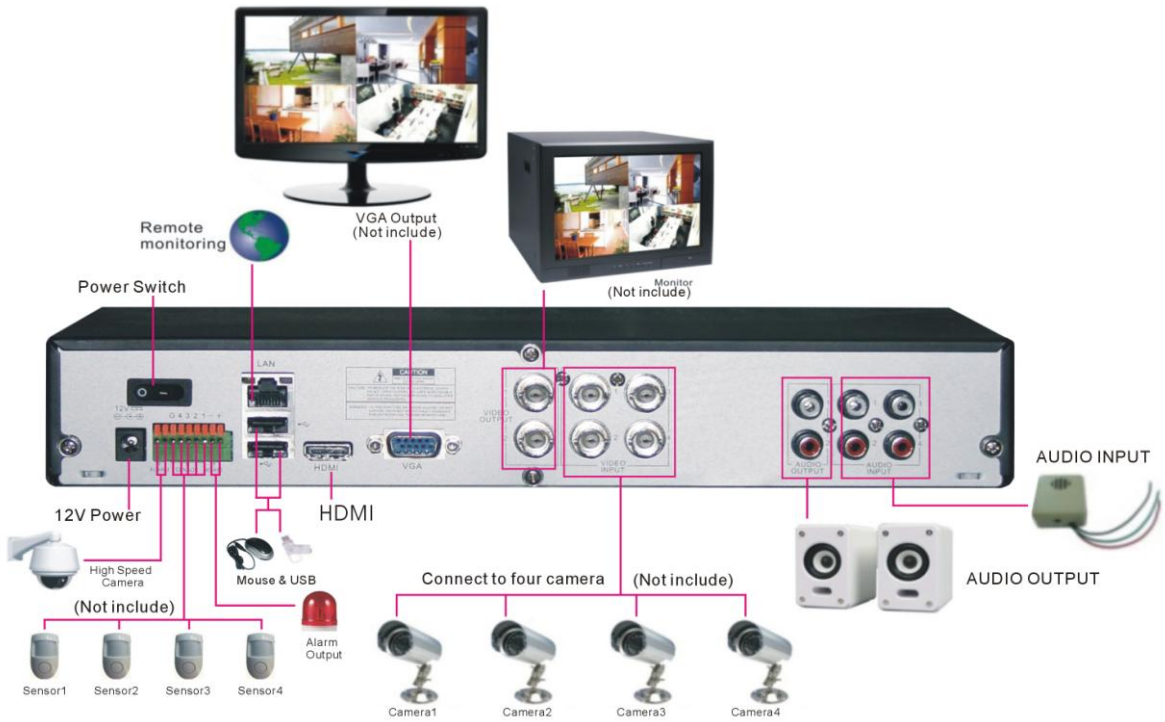
1. Q: What can I do if the system does not detect the HDD?
   A: Check if the power supply system is properly connected and data cord and power cables are securely connected.
2. Q: We have changed the password but do not remember the new password, how can we access the system?
   A: If you forget system password, please consult with the service personnel.
3. Q: We are not getting any video signal on the DVR, what is wrong?
   A: Check camera video cable and connections; or check monitor video cable and connections; or confirm that the camera has the power and / or check camera lens setting.
4. Q: Why some channels display just a blank screen even if they receive video sources?
   A: Check if the camera is connected to the system properly displays the image; check if the camera is properly supplied with power.
5. Q: Can the DVR have problems if it gets too hot, how can I prevent this?
   A: The DVR has a fan to help it dissipate heat while it is running. Please place the DVR in a place where there is good air circulation and away from heat sources to increase stability and life of the DVR.
6. Q: “Record” Can not work normally, how to deal with?
   A: Check if the current screen is in Play mode, pressing [Stop] button to exit the Play mode and then you can enter into the [Record] function.
7. Q: Why the Remote Controller can’t work normally?
   A: Check if the battery is power off; or check if the Remote Controller is broken.
8. Q: Can we records whilst playing-back?
   A: Yeah, you can do it. The system support you records whilst playing-back.
9. Q: Can we erase some recorded file from DVR.
   A: Considering the safety factor, you can’t delete the recorded file directly from the device. When you actually erase all the recorded files, please select HDD format function
10. Q: Why does the Buzzer keep sounding?
    A: Please check if motion detection is on and the system has detected motion, make sure the HDD is being detected and has sufficient space available; check if video has lost etc.
11. Q: Why can’t stop [Stop] function?
    A: Pressing [Stop] button only can stop manual record. If you want to stop Scheduled record, please revise to [No Record] during this period.

8.4 Usage Maintenance

1. Please make sure DVR keep away from heating source.
2. Clean the internal dust regularly, keep DVR aeration well and be easy to heat dissipate.
3. Please not plug in RS-232 and RS-485 when power is on to avoid any damage to the port.
4. Please check the HDD cable and data cable to avoid the cable aging.
5. Please avoid other electronics device interfere video/audio signal of DVR a.s.a.p., or static electricity and induced voltage damage to DVR.
6. Suggest user replace BNC cable regularly to keep signal input stable.

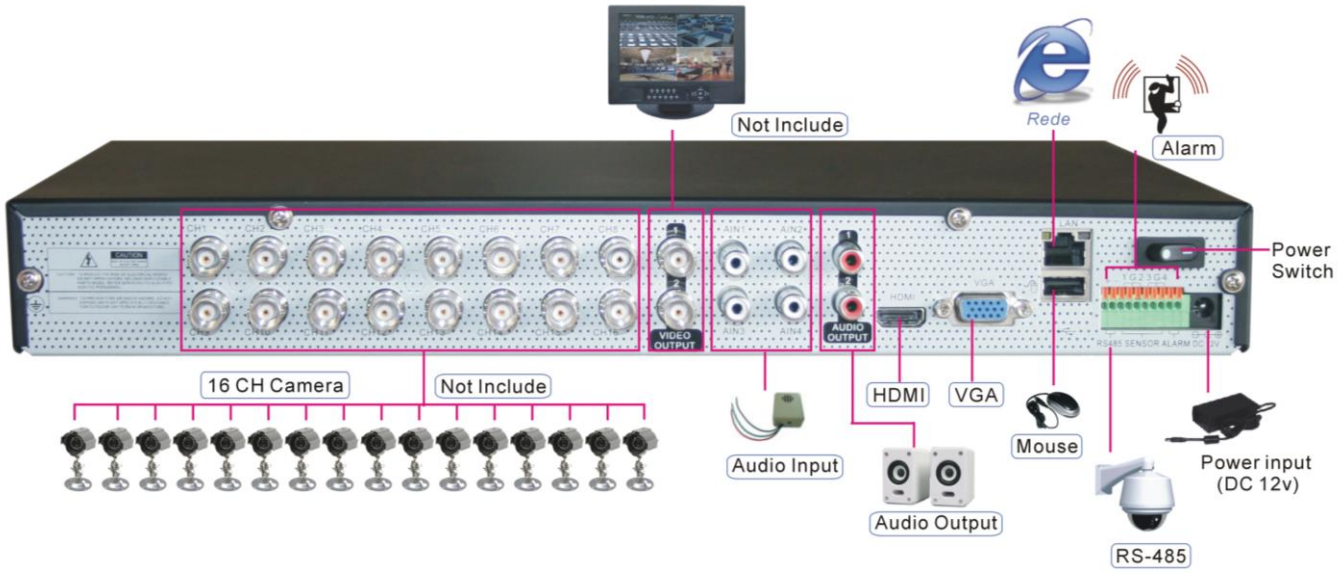
8.5 System Connection Diagram

4CH



8CH

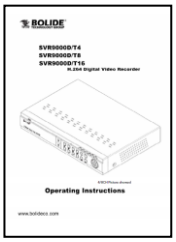
16CH



8.6 Accessories

Power cord

Power Adaptor



User Manual

USB Mouse

Remote Controller

Software CD

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